XTL-750W

SERVICE MANUAL

US Model
Hong Kong Model

Tuner unit :
XT-992V (US model)
XT-991V (Hong Kong model)

Monitor : XVM-750W

• This set consists of the following units.

	US model	Hong Kong model
MONITOR	XVM-750W	XVM-750W
TUNER UNIT	XT-992V	XT-991V
REMOTE COMMANDER	RM-X63N	RM-X63E
ANTENNA	VCA-114	VCA-114

SPECIFICATIONS

Monitor (XVM-750W)

System Liquid crystal color display
Display Transparent TN LCD panel
Drive system TFT active matrix system
Picture size 7 in.; 155.52 × 87.75 mm, 178.57 mm (w × h, diagonally)
Picture segment 336,960 (w 1440 × h 234)
Speaker type 35 × 20 mm dynamic speaker × 2
Power requirements 12 V DC car battery (negative ground)
Current drain Approx. 1.0 A
Dimensions 215 × 126.5 × 34 mm (w × h × d)
Operating temperature 5˚C ~ +45˚C
Mass Approx. 650 g

TV tuner unit (XT-992V: US, XT-991V: Hong Kong)

Television system
Hong Kong:
CCIR I,D,K system
US:
NTSC
Color system Hong Kong:
TV: PAL
Video: PAL, NTSC
US:
TV: NTSC
Video: NTSC
Channel converge
VHF: 1 CH ~ 12 CH (Hong Kong)
2 CH ~ 13 CH (US)
UHF: 14 CH ~ 69 CH (US)
21 CH ~ 69 CH (Hong Kong)
Power requirements
12 V DC car battery
(negative ground)
Current drain Approx. 0.5 A
Output terminals
Video output: RCA pin 1 Vp-p, 75 ohm
Audio output: RCA pin –10 dBs, 10 kohm
Monitor output: Square 16 -pin (exclusive)

– Continued on next page –

MOBILE COLOR TV

MICROFILM

SONY®

Input terminals	Video input (2 system): RCA pin 1 Vp-p, 75 ohm Audio input: RCA pin –10 dBs, 10 kohm Antenna input: mini plug Navigation input: Square 16 -pin (exclusive) RCA pin: Video 1 Vp-p, 75 ohm Audio (monaural) –10 dBs, 10 kohm
Dimensions	202 × 30 × 140 mm (w × h × d)
Mass	Approx. 750 g

Wireless remote (RM-X63N: US, RM-X63E: Hong Kong)

Power requirements	AA (R6) battery × 2
Operable range	Approx. 3 m
Dimensions	62 × 25 × 115 mm (w × h × d)
Mass	Approx. 100 g (including batteries)

TV antenna (VCA-114)

Cord	5 m (196 7/8 in.), 75 ohm

Supplied accessories

Wireless remote RM-X63N (1) (US model)
Wireless remote RM-X63E (1) (Hong Kong model)
Power input cord (1)
Monitor cable (1)
TV antenna VCA-114 (1)
Parts for installation and connections (1 set)
Cleaning cloth (1)

Design and specifications are subject to change without notice.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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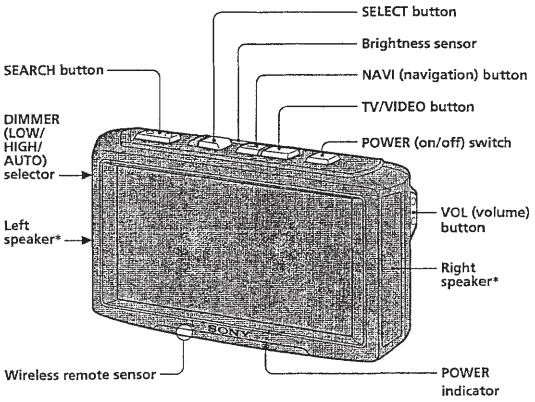
SECTION 1
GENERAL

This section is extracted from instruction manual.

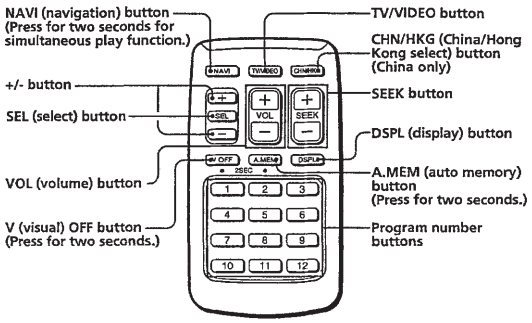
Location of Controls

Monitor



* Monaural sound is heard from the left and right loudspeakers.

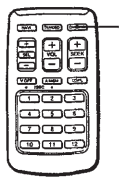
Wireless remote


NAVI (navigation) button (Press for two seconds for simultaneous play function.)
TV/VIDEO button
CHN/HKG (China/Hong Kong select) button (China only)
+/- button
SEEK button
SEL (select) button
DSPL (display) button
VOL (volume) button
A.MEM (auto memory) button (Press for two seconds.)
V (visual) OFF button (Press for two seconds.)
Program number buttons

Getting Started

Selecting a TV system (China only)

If you select the TV system, press CHN/HKG on the wireless remote. If there is no sound, press CHN/HKG again. When you select the TV system, the TV program numbers appear as follows.

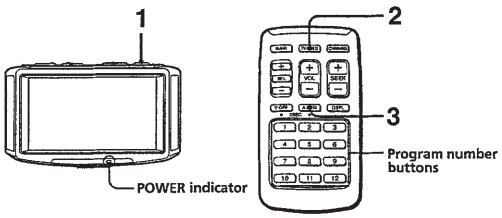


China	Hong Kong
12 CHN	32 HKG

Storing TV stations automatically

(Automatic memory function)

You can store up to 12 VHF/UHF stations.
VHF stations on program numbers 1 through 12 are stored on the program number buttons. UHF stations on program numbers 21 through 69 (13 through 57 for China, 14 through 69 for USA) are stored in order after the stored VHF stations.



1 Press POWER on the TV.
The power indicator lights up.

2 Press TV/VIDEO repeatedly until a TV program appears on the display.

3 Press A.MEM on the wireless remote for two seconds.

The wireless remote stores VHF stations on the program number buttons corresponding to the VHF station numbers. UHF stations are stored on the remaining program number buttons in order.

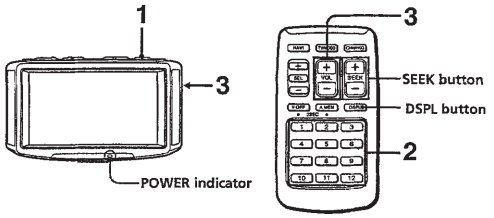
Example

Program number button	1	2	3	4	5	6	7	8	9	10	11	12
VHF station	13*	2	-	4	-	6	-	8	-	10	-	12
UHF station	21	-	24	-	27	-	32	-	34	-	48	-

* USA only

Watching a TV Program

Note
The TV picture does not appear while the car is moving for safety reasons.



1 **Press (POWER).**
The POWER indicator lights up.

2 **Press the program number buttons (1 through 12) to select the desired TV station.**
The TV program number appears for five seconds in the upper right corner of the display each time you select a station.

3 **Adjust the volume.**
Press the VOL button on the monitor, or press (VOL) on the wireless remote.

Turning on the on-screen display

Press (DSPL).
To turn off the display, press it again.

Turning off the TV

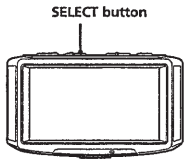
Press (POWER).

If you cannot receive the stored stations while traveling

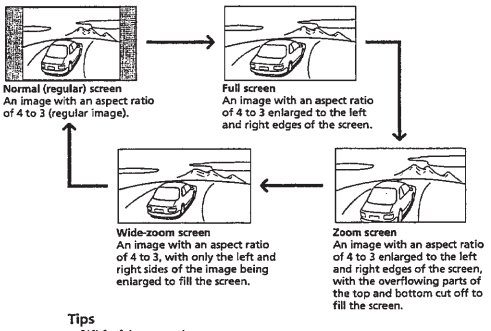
Press (SEEK) momentarily to search for the station automatically. When the unit receives a station, it stops scanning. Press the button repeatedly until the desired station is received.

Viewing the Wide Screen

In addition to normal screen mode, full screen, zoom screen, and wide-zoom screen modes are also available.



Press the SELECT button.
Pressing the SEL button switches the screen mode in the following sequence:



Normal (regular) screen
An image with an aspect ratio of 4 to 3 (regular image).

Full screen
An image with an aspect ratio of 4 to 3 enlarged to the left and right edges of the screen.

Wide-zoom screen
An image with an aspect ratio of 4 to 3, with only the left and right sides of the image being enlarged to fill the screen.

Zoom screen
An image with an aspect ratio of 4 to 3 enlarged to the left and right edges of the screen, with the overflowing parts of the top and bottom cut off to fill the screen.

Tips
- With this operation:
  — The wireless remote does not work.
  — Beeps are deactivated.
  — The screen size type is not displayed.
- When you turn on the unit again, the screen mode is reset to full screen.

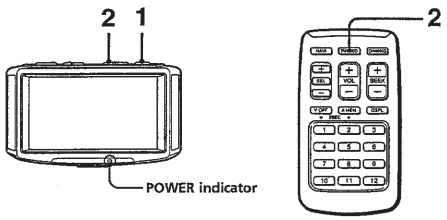
(Continued)

- Images may appear coarse-grained when viewed in the zoom screen mode.
- This unit is manufactured according to wide-zoom specifications for typical home-use wide TV sets.
- Changing the screen mode will also change the scale of the map screen on your navigation system.

Watching a Video

Note
The video picture does not appear while the car is moving for safety reasons.

You can watch video CDs and cassettes recorded in either the PAL or NTSC color system (China only). Make sure a video player is correctly connected to the TV tuner unit.
For details, see the Installation/Connections manual.



1 **Press (POWER).**
The POWER indicator lights up.

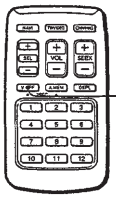
2 **Press (TV/VIDEO) to select the input you connected the video player to, VIDEO 1 or VIDEO 2.**
Each time you press (TV/VIDEO), the indication changes as follows.
→ TV program number → VIDEO 1 → VIDEO 2 →

3 **Turn the video player on and begin playback.**
The unit displays PAL or NTSC color system video pictures and the following display appears for five seconds (China only).

NTSC Video

PAL Video

Listening to the TV/video Sound with the Picture Off (Visual off function)



GB

Press (V OFF) for two seconds.

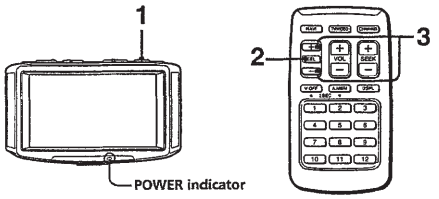
Only hear the sound of the selected program is heard.

To cancel the visual off function, press (V OFF) again. If you turn the unit off or turn the ignition switch to the OFF position, the visual off function will be canceled.

The visual off function is also canceled when you select another TV program with the program number buttons (TV only).

Adjusting the Picture

You can adjust the color, hue and brightness of the picture.



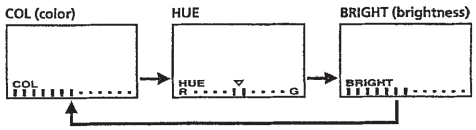
GB

1 **Press (POWER).**

The POWER indicator lights up.

2 **Press (SEL).**

Each time you press (SEL), the items change as follows.



Note

You do not need to adjust HUE when watching a TV program or playing back PAL video sources. When you press (SEL), only COL and BRIGHT appear (China only).

3 **Press either SEL⊕ or ⊖ to adjust.**

Press one of these buttons within five seconds. The item will be canceled after five seconds if you do not touch the ⊕ or ⊖.

	Color	Hue	Brightness
⊕	For more color intensity	To make the picture greenish	To brighten the picture
⊖	For less color intensity	To make the picture reddish	To darken the picture

(Continued)

Tips

- To restore the factory settings, press (SEL) for more than two seconds, VISUAL STD (standard) appears.
- If the picture is too dark or too bright from the viewing position, press (SEL) to select BRIGHT and press ⊕ or ⊖.

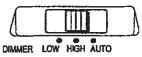
GB

Adjusting the Screen Brightness

(Auto bright control)

Depending on the surrounding light, you can adjust the screen brightness by controlling the brightness of the fluorescent pipe installed in the liquid crystal panel.
Change the DIMMER selector located on the side of the monitor to LOW, HIGH, or AUTO.

Side of the monitor



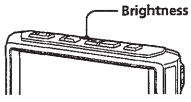
LOW: **Reduces the screen brightness.**

HIGH: **Increases the screen brightness.**

AUTO: **The unit responds to the surrounding light and adjusts the screen brightness automatically (auto bright control).**

Notes

- Do not cover the brightness sensor. If you cover the sensor, the auto bright control will not work.

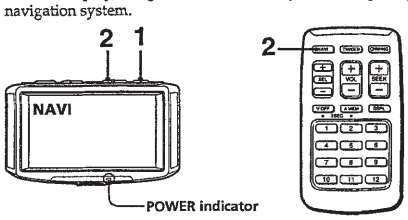


- The HIGH setting may make the screen look dazzling to your eyes in the nighttime. Driving immediately after viewing the screen could be dangerous; wait for your eyes to get accustomed to the surround light before driving.

GB

Using the Navigation System

You can display navigation information by connecting an optional navigation system.



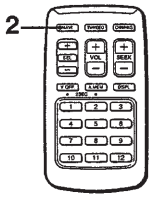
1 **Press (POWER).**
The POWER indicator lights up.

2 **Press (NAVI) momentarily.**
NAVI appears for five seconds in the upper left corner of the screen.

Note
As of January 1999, the Sony navigation system is not available.

Listening to the TV/video Sound while Using the Navigation System (Simultaneous play function)

You can listen to the TV or video sound even while the navigation system is on.



1 **Press (POWER) and select a TV program, or select VIDEO 1 or VIDEO 2 and begin video playback.**

2 **Press (NAVI) for two seconds.**
The navigation display appears, and the sound of the selected TV program or video is heard.

Listening to another TV program
Press a program number button or (SEEK).

Changing to the TV or video screen
Press (TV/VIDEO).

Canceling the simultaneous play function
To turn the TV or video sound off, press (NAVI) for two seconds.

Connections 連接

Using the tap ⑤/使用分接頭 ⑤

1 Attach to the tap the end of the parking cord (Green).
把分接頭拄在停車導線（綠色）末端。

2 Fix the tap to the parking cord in a suitable position on the parking brake switch cord as illustrated.
如圖所示，把分接頭固定在停車製動開關導線的適當位置。

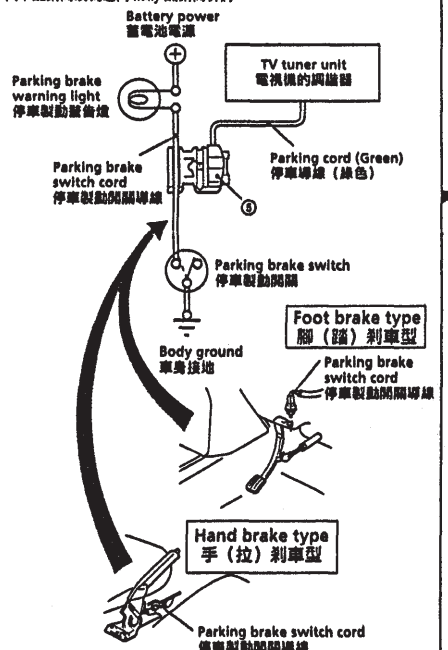
Note
If the parking brake switch cord is too thin, connect the parking cord to the parking brake switch cord directly without using the tap.
註
如果停車製動開關導線太細，可不用分接頭而直接將停車導線接至停車製動開關導線上。

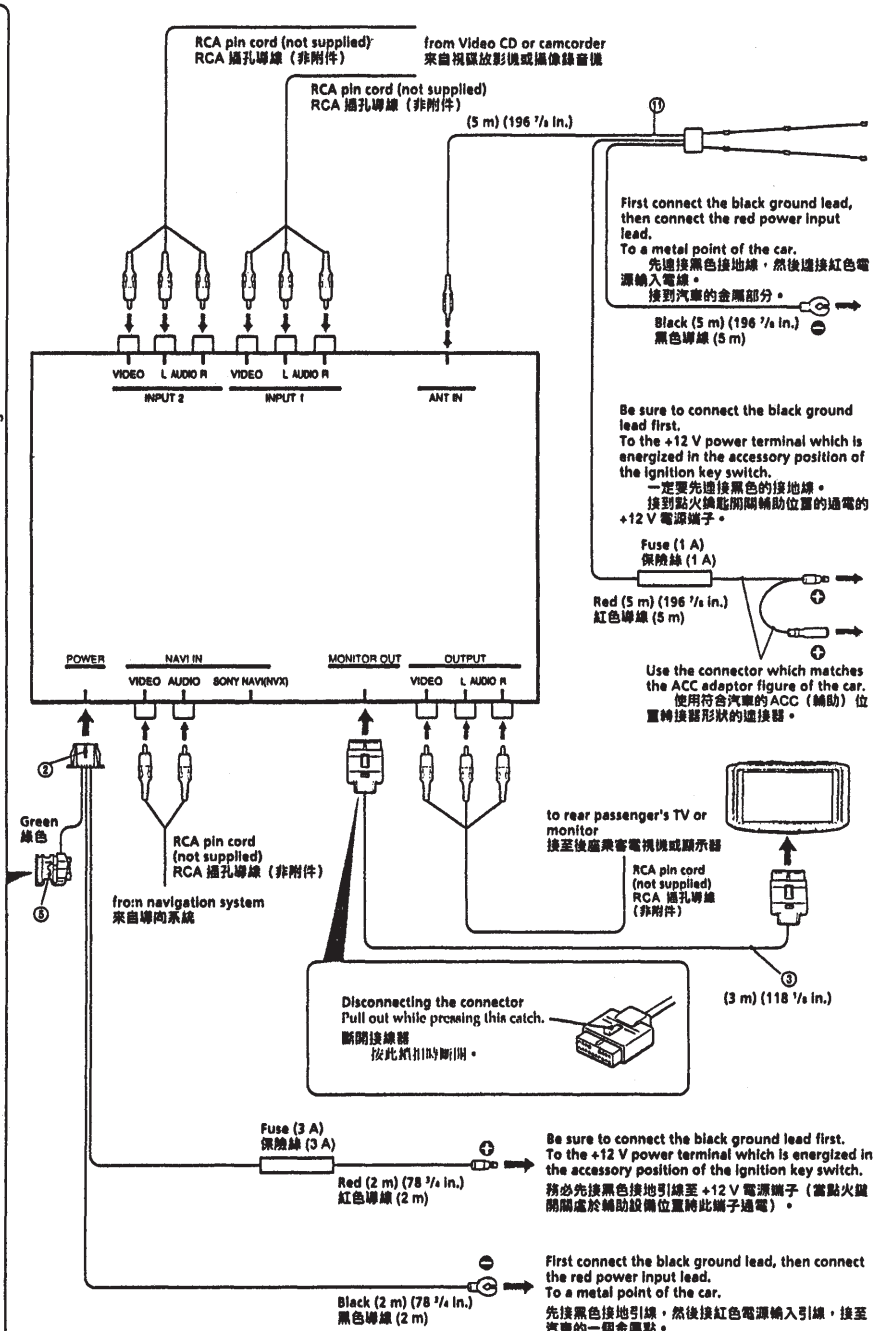
Connecting the parking cord

Be sure to connect the parking cord (Green) to the parking brake switch cord. The mounting position of the parking brake switch cord depends on your car. Refer to the system connection diagram below and consult your car dealer or your nearest Sony dealer for further details.

連接停車導線

務必將停車導線（綠色）接至停車製動開關導線上。停車製動開關導線的安裝位置視您的汽車而定。可參考下面的系統接線圖，並向您的汽車經銷商或就近向 Sony 經銷商咨詢。




RCA pin cord (not supplied)
RCA 插孔導線（非附件）
from Video CD or camcorder
來自視碟放影機或攝像錄音機
RCA pin cord (not supplied)
RCA 插孔導線（非附件）
(5 m) (196 7/8 in.)
⑪
First connect the black ground lead, then connect the red power input lead.
To a metal point of the car.
先連接黑色接地線，然後連接紅色電源輸入電線。
接到汽車的金屬部分。
Black (5 m) (196 7/8 in.)
黑色導線 (5 m)
VIDEO L AUDIO R
INPUT 2
VIDEO L AUDIO R
INPUT 1
ANT IN
Be sure to connect the black ground lead first.
To the +12 V power terminal which is energized in the accessory position of the ignition key switch.
一定要先連接黑色的接地線。
接到點火鑰匙開關輔助位置的通電的 +12 V 電源端子。
Fuse (1 A)
保險絲 (1 A)
Red (5 m) (196 7/8 in.)
紅色導線 (5 m)
Use the connector which matches the ACC adaptor figure of the car.
使用符合汽車的 ACC（輔助）位置轉接器形狀的連接器。
POWER
NAVI IN
VIDEO AUDIO SONY NAVI(NVX)
MONITOR OUT
OUTPUT
VIDEO L AUDIO R
②
Green
綠色
⑤
RCA pin cord (not supplied)
RCA 插孔導線（非附件）
from navigation system
來自導向系統
to rear passenger's TV or monitor
接至後座乘客電視機或顯示器
RCA pin cord (not supplied)
RCA 插孔導線（非附件）
③
(3 m) (118 1/8 in.)
Disconnecting the connector
Pull out while pressing this catch.
斷開接線器
按此鈕扣時斷開。
Fuse (3 A)
保險絲 (3 A)
Red (2 m) (78 3/4 in.)
紅色導線 (2 m)
Be sure to connect the black ground lead first.
To the +12 V power terminal which is energized in the accessory position of the ignition key switch.
務必先接黑色接地引線至 +12 V 電源端子（當點火鑰開關處於輔助設備位置時此端子通電）。
Black (2 m) (78 3/4 in.)
黑色導線 (2 m)
First connect the black ground lead, then connect the red power input lead.
To a metal point of the car.
先接黑色接地引線，然後接紅色電源輸入引線，接至汽車的一個金屬點。

Notes
- Be sure to connect the power input cord after all other cords have been connected.
- The NAVI IN jack is for navigation systems only. Do not connect any system other than a navigation system.
- As of January 1999, the Sony navigation system is not available.

註
- 電源輸入引線務必在其他所有導線均已接好後才連接。
- NAVI IN 插座僅供配備有導向系統才用。勿接任何別的線路。
- 1999 年 1 月之前，在某些歐洲市場不能 Sony 導向系統。

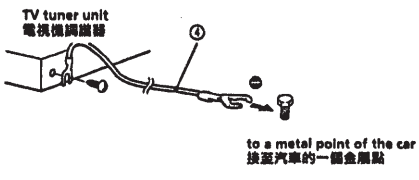
How to reduce the noise during radio reception

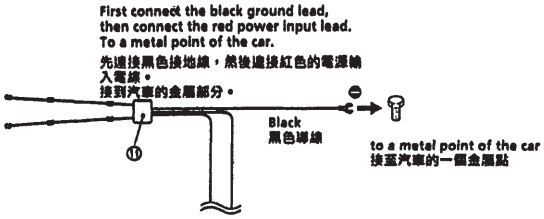
If you use the supplied TV antenna instead of the original glass antenna, there will be alternator noise during radio reception. In this case, earth the TV tuner unit to a metal point of the car with the supplied earth cord ④ as shown in the illustration left.
And ground the TV antenna to a metal point of the car (with the supplied ground cord) near the antenna as shown in the illustration at right.

聽收音機時如何減小噪聲

如果用附帶的電視天線代替原玻璃窗天線，則當聽收音機時，將發生交流噪聲。此時，請如左圖所示用附帶的接地線 ④ 將電視調諧裝置接地到汽車的金屬部分。
將電視天線接地到如右圖所示的靠近天線的汽車上金屬部分（用附帶的接地導線）。

Example
示例

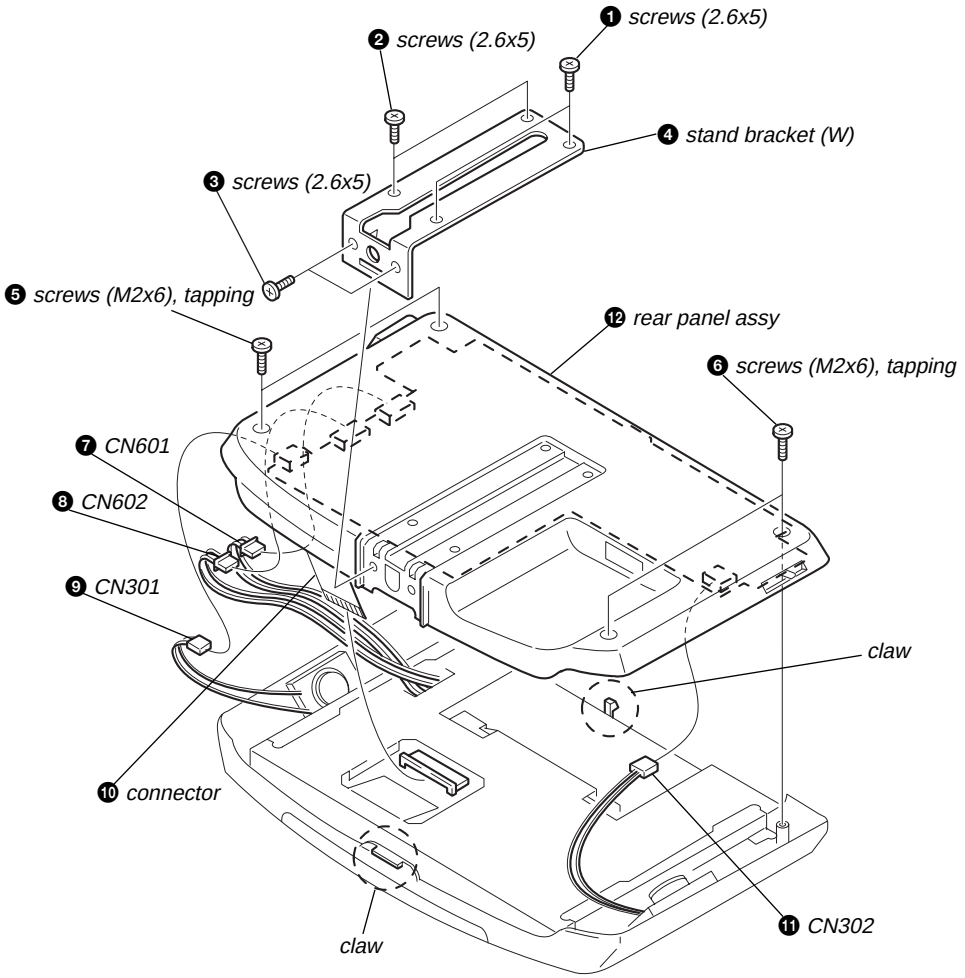




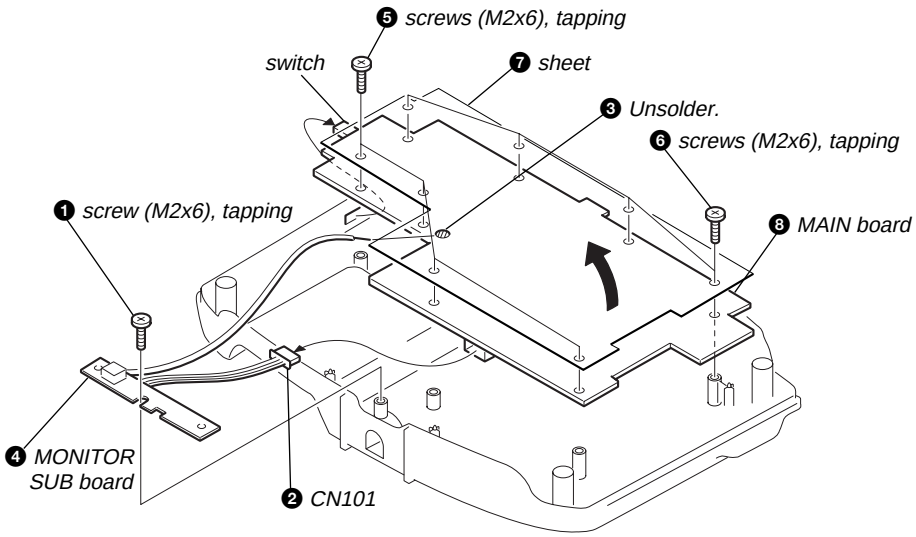
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

2-1. REAR PANEL ASSY



2-2. MAIN BOARD



SECTION 3
ELECTRICAL ADJUSTMENTS

MONITOR SECTION

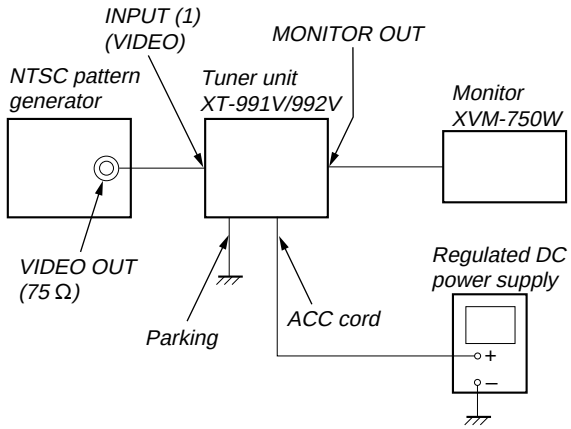
Equipment Used

The measuring equipment below are used for these electrical adjustments:

- Oscilloscope
- NTSC pattern generator
- Regulated DC power supply
- Digital voltmeter

Connection of Equipment

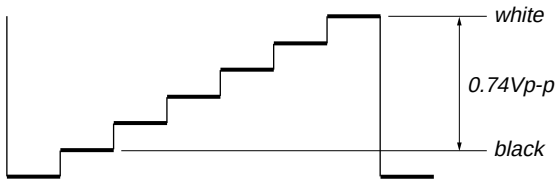
Unless otherwise specified, the measuring equipment should be connected as shown below:



Setup for Adjustment

The adjustment signal is a 5-step gray scale signal from a NTSC pattern generator.

Input the gray scale signal into the tuner unit and connect an oscilloscope to TP14 on the MONITOR MAIN board. Check that the width between the black and white levels of the gray scale signal is 0.74 Vp-p.



DC/DC Converter Voltage Adjustment

Procedure:

1. Display the gray scale on the monitor screen.
2. Connect a digital voltmeter to TP57 on the MONITOR MAIN board.
3. Adjust RV401 so that the reading on the digital voltmeter is 5.35 ± 0.05 V.

Adjustment Location: See page 11.

Inverter Voltage Adjustment

Procedure:

1. Display the gray scale on the monitor screen.
2. Connect a digital voltmeter to TP64 on the MONITOR MAIN board.
3. Adjust RV601 so that the reading on the digital voltmeter is 7.80 ± 0.05 V.

Adjustment Location: See page 11.

Bright Adjustment

Procedure:

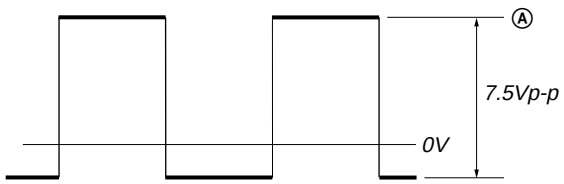
1. Display the gray scale on the monitor screen.
2. Connect a digital voltmeter to TP70 on the MONITOR MAIN board.
3. Adjust RV201 so that the reading on the digital voltmeter is 2.13 ± 0.02 V.

Adjustment Location: See page 11.

VCOM Adjustment (1)

Procedure:

1. Display the gray scale on the monitor screen.
2. Connect an oscilloscope to TP102 on the MONITOR MAIN board.
3. Adjust RV210 so that the amplitude of the output waveform is 7.5 ± 0.1 Vp-p.
4. Adjust RV211 so that the level Ⓐ of the output waveform is at 5.5 ± 0.05V DC.



Adjustment Location: See page 11.

RGB Amplitude Adjustment

Procedure:

1. Display the gray scale on the monitor screen.
2. Connect a digital voltmeter to TP63 on the MONITOR MAIN board.
3. Adjust RV208 so that the reading on the digital voltmeter is 2.37 ± 0.02 V.

Adjustment Location: See page 11.

γ 2 Adjustment

Procedure:

1. Display the gray scale on the monitor screen.
2. Connect a digital voltmeter to TP67 on the MONITOR MAIN board.
3. Adjust RV213 so that the reading on the digital voltmeter is 2.19 ± 0.02 V.

Adjustment Location: See page 11.

γ 0 Adjustment

Procedure:

1. Display the gray scale on the monitor screen.
2. Connect an oscilloscope to TP106 on the MONITOR MAIN board.
3. Adjust RV212 so that the white level of the waveform is at 4.6 ± 0.05V DC.

Adjustment Location: See page 11.

R and B Level Adjustment

Procedure:

1. Display the gray scale on the monitor screen.
2. Connect an oscilloscope to TP107 on the MONITOR MAIN board.
3. Adjust RV207 so that the white level of the waveform is at 4.6 ± 0.05V DC.
4. Connect an oscilloscope to TP108 on the MONITOR MAIN board.
5. Adjust RV209 so that the white level of the waveform is at 4.4 ± 0.05V DC.

Adjustment Location: See page 11.

VCOM Adjustment (2)

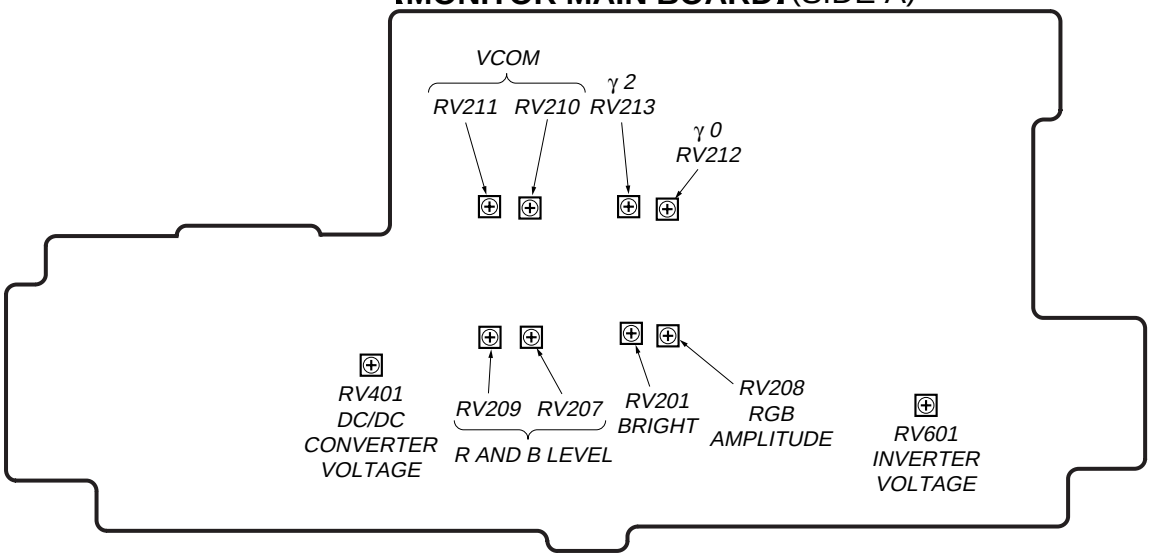
Procedure:

1. Display the navigation map screen on the monitor screen.
2. Adjust RV211 so as to ensure that the screen has the highest contrast with no flicker.

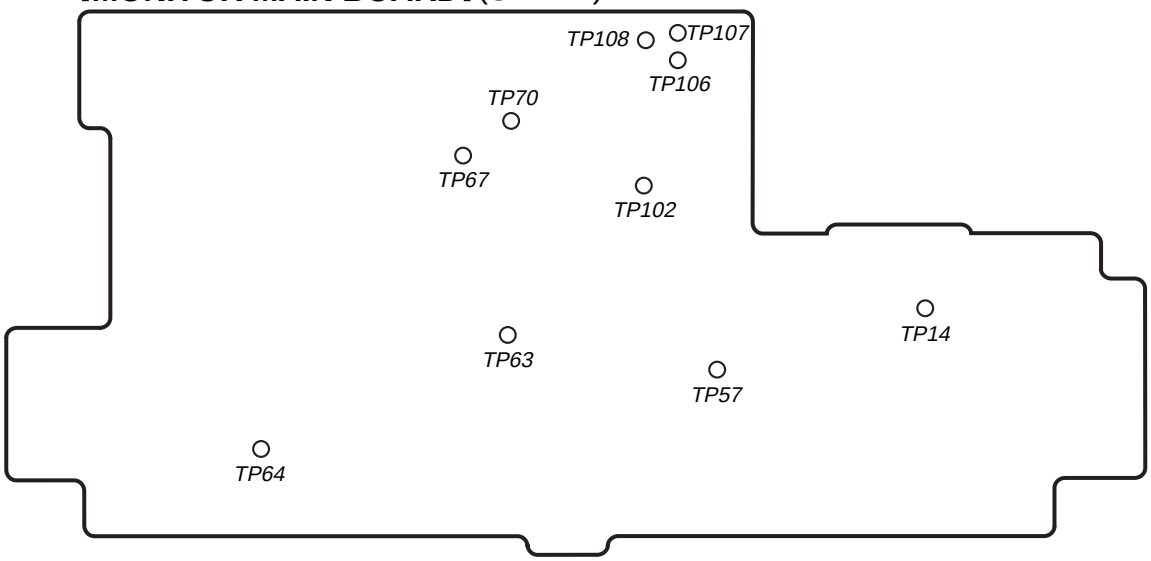
Adjustment Location: See page 11.

Adjustment Location:

【MONITOR MAIN BOARD】(SIDE A)



【MONITOR MAIN BOARD】(SIDE B)



TUNER UNIT SECTION

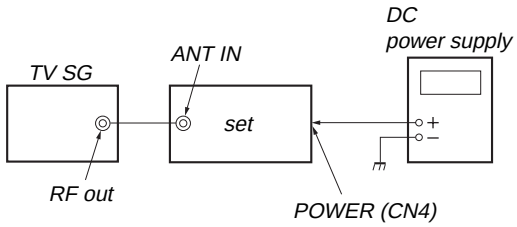
• Use the following equipment for the electrical adjustment.

Equipment

① Monitor TV (XVM-750W, etc.)
② Spectrum analyzer
③ TV signal generator
④ Digital voltmeter
⑤ Oscilloscope
⑥ Audio analyzer
⑦ DC power supply
⑧ Frequency counter

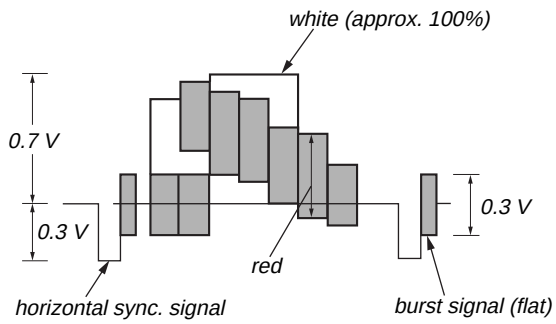
Equipment Connections

Connect the test equipment as shown in the figure below (unless otherwise instructed) and perform the adjustment.

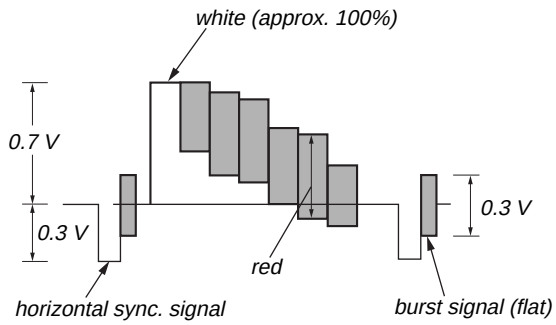


Setup during Adjustment

Use the video signal obtained from the TV signal generator as the alignment signal, and check that this signal is within video output signal standards.



Color bar signal from TV signal generator (US model)



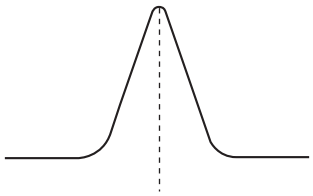
Color bar signal from TV signal generator (Hong Kong model)

Connection points: See page 14.
Adjustment points: See page 14.

TRAP Adjustment (Hong Kong model)

Procedure:

1. With the Power off, input the output of TG to TP30 (with DC cut by a capacitor (0.01 µF)).
2. Connect a spectrum analyzer to TP31 (with DC cut by a capacitor (0.01 µF)).
3. Adjust T1 so that the waveform peak is 39.75 MHz ± 50 Hz.
4. Adjust T2 so that the waveform peak is 30.0 MHz ± 50 Hz.
5. After this adjustment, open TP30 and TP31. (Disconnect the spectrum analyzer.)

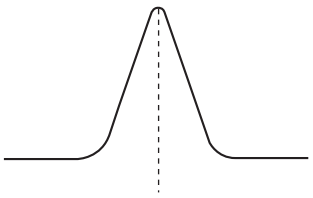


T1= 39.75 MHz
T2= 30.0 MHz

VCO Adjustment

Procedure:

1. No connection to ANT IN. (no signal state)
2. Connect a resistor (10 kΩ) between TP33 and +9 V (TP35).
3. Connect a spectrum analyzer to TP34 (with DC cut by a capacitor (0.01 µF)).
4. Adjust T3 so that the waveform peak is 38.0 MHz ± 1 kHz (Hong Kong model) or 45.75 MHz ± 1 kHz (US model).
5. After this adjustment, open TP34. (Disconnect the spectrum analyzer.)



38.0 MHz (Hong Kong model)
45.75 MHz (US model)

AGC Adjustment

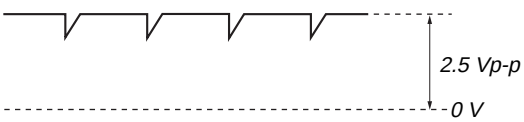
Procedure:

1. Set the TV SYSTEM switch to 1.
2. Input a color bar signal of C9ch (192.25 MHz) (Hong Kong model) or 10ch (193.25 MHz) (US model) and 66 dBµV (75 Ω OPEN).
3. Connect the digital voltmeter to TP42.
4. Adjust VR1 so that reading on the digital voltmeter is 6.0 ± 0.1 V (Hong Kong model) or 3.0 ± 0.1 V (US model).

AFT Adjustment

Procedure:

1. Input a color bar signal of C9ch (192.25 MHz) (Hong Kong model) or 10ch (193.25 MHz) (US model) and 74 dBµV (75 Ω OPEN).
2. Connect the oscilloscope to TP102.
3. Adjust T3 untill the waveform on the oscilloscope is 2.5 Vp-p.



Note: Small peaks (dips) coming out from the top of the waveform are unacceptable.

RGB Decoder FO Adjustment

Procedure:

Hong Kong model:

1. Without INPUT1, INPUT2 inputs (no signal input mode), short the jumper wire between TP100 and GND.
2. Connect a frequency counter to TP61.
3. Adjust VR6 so that reading on frequency counter is 4.433619 MHz ± 10 Hz.
4. Short the jumper wire between TP106 and GND.
5. Connect a frequency counter to TP61.
6. Confirm that reading on frequency counter is 3.579545 MHz ± 100 Hz.
7. After this adjustment, remove the jumper wires.

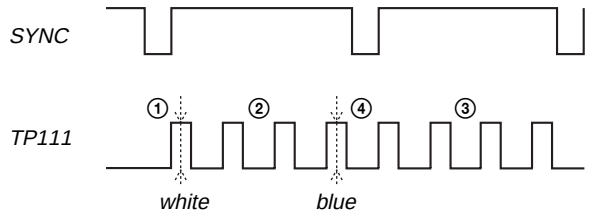
US model:

1. Without INPUT1, INPUT2 inputs (no signal input mode), short the jumper wire between TP100 and GND.
2. Connect a frequency counter to TP61.
3. Adjust VR6 so that reading on frequency counter is 3.579545 MHz ± 100 Hz.
4. After this adjustment, remove the jumper wires.

RGB Decoder Input Level Adjustment

Procedure:

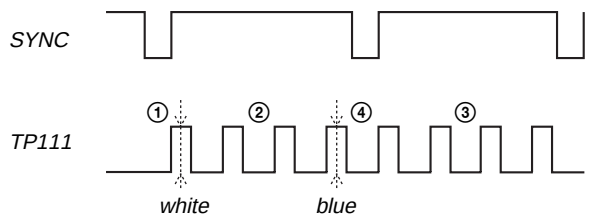
1. Input signal : PAL EBU color bar (INPUT 1 VIDEO)
2. Adjust VR4 so that the white peak ① (100% white) of TP111 (B OUT) is at 1.0 Vp-p.



DL AMP & DAT Adjustment (Hong Kong model)

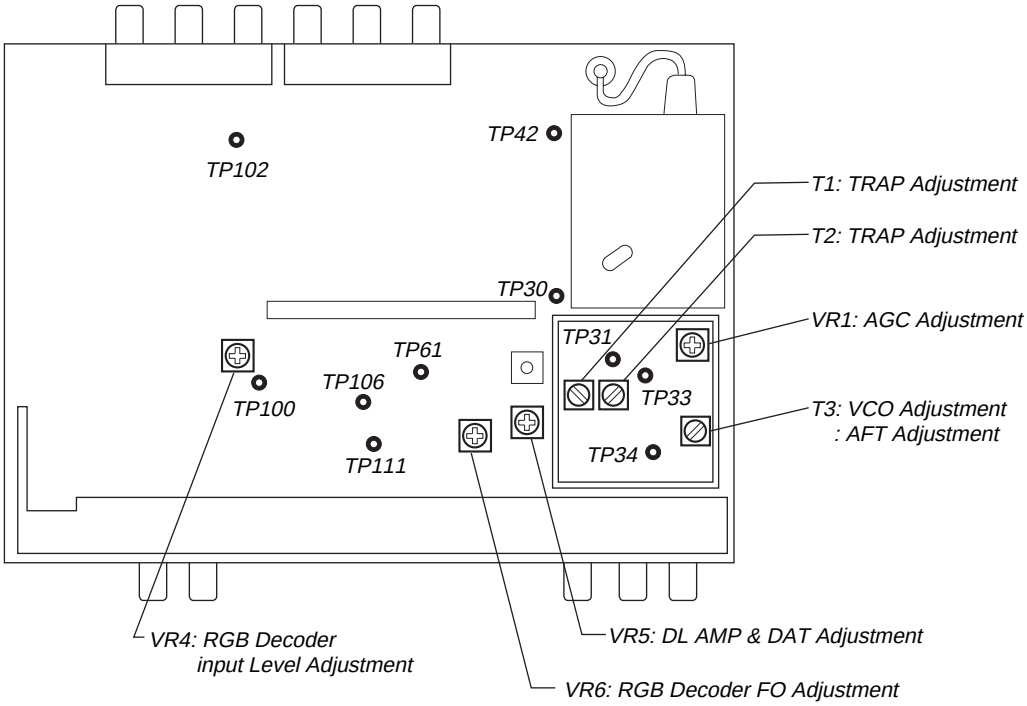
Procedure:

1. Adjust DAT so as to minimize the variation between the level ② and the level ③ of TP111.
2. Adjust VR5 so that the blue level ④ is at 1.0 Vp-p.
3. Set the input to NTSC, and confirm that the blue level ④ is at 1.0 ± 0.1 Vp-p.

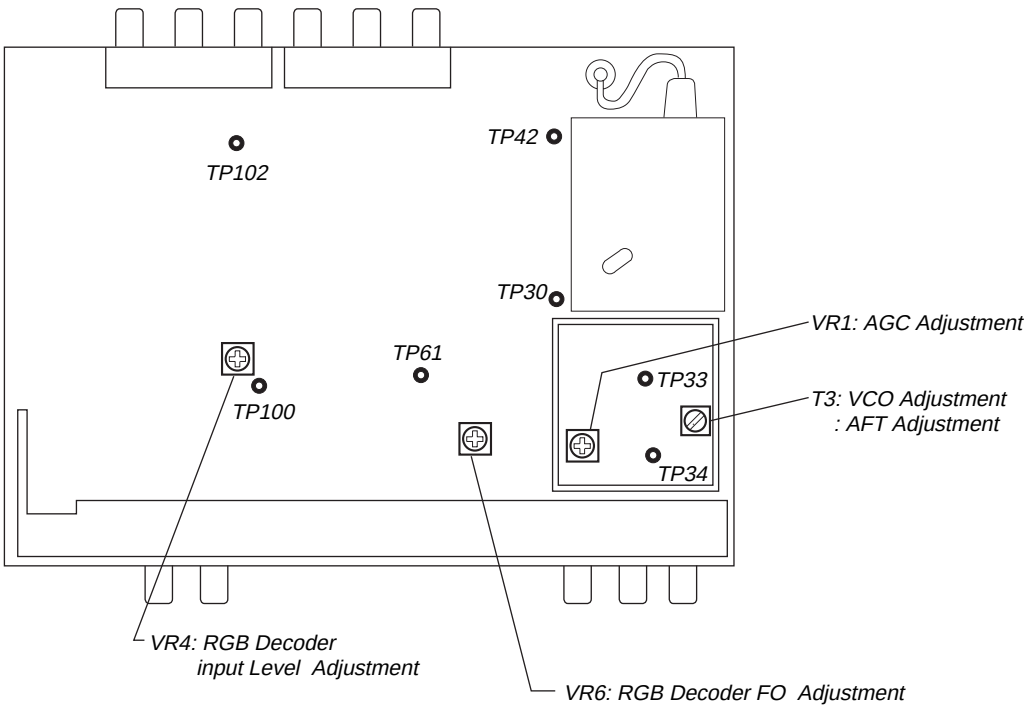


Connection Points and Adjustment Points:

– Hong Kong Model –

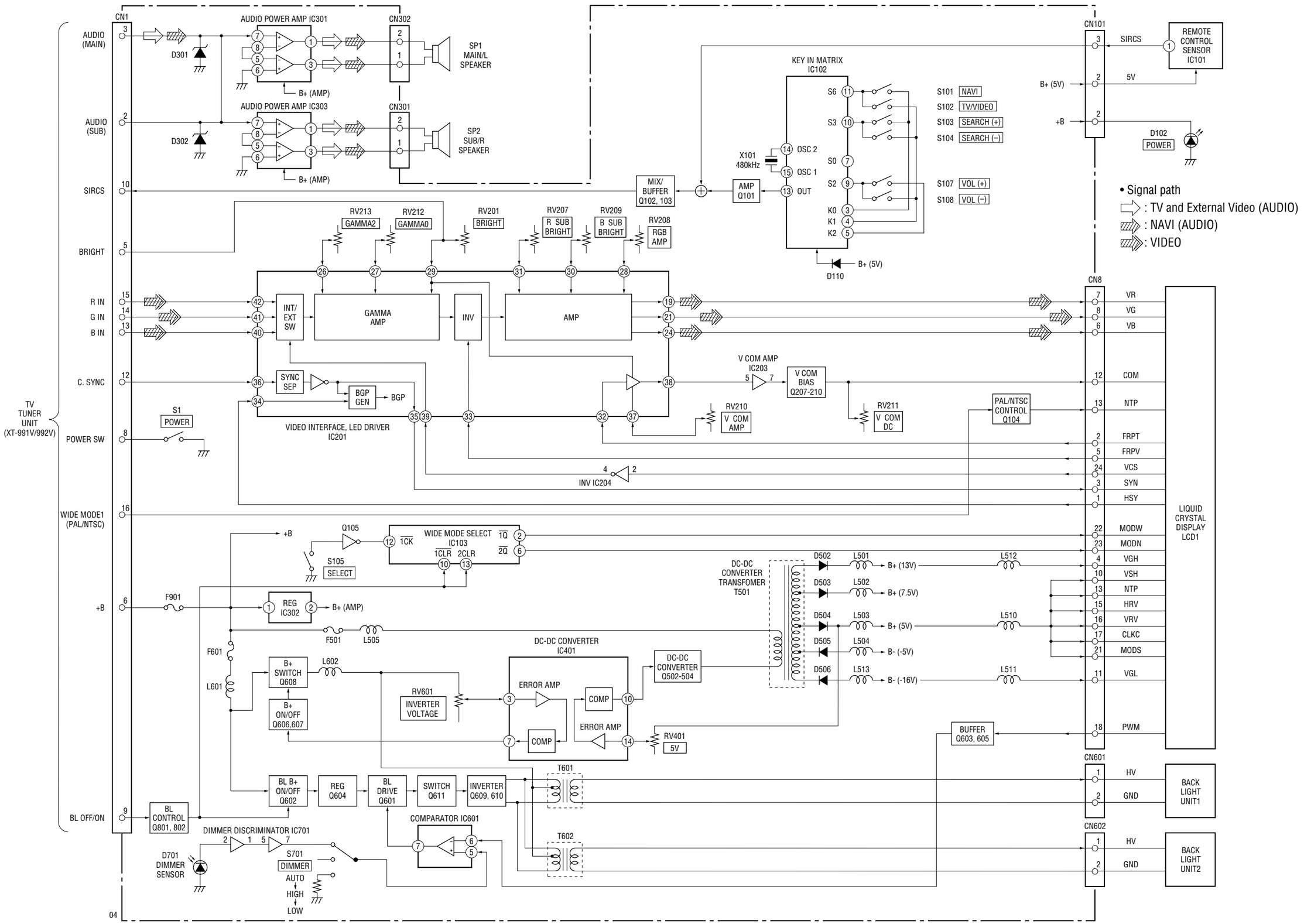


– US Model –

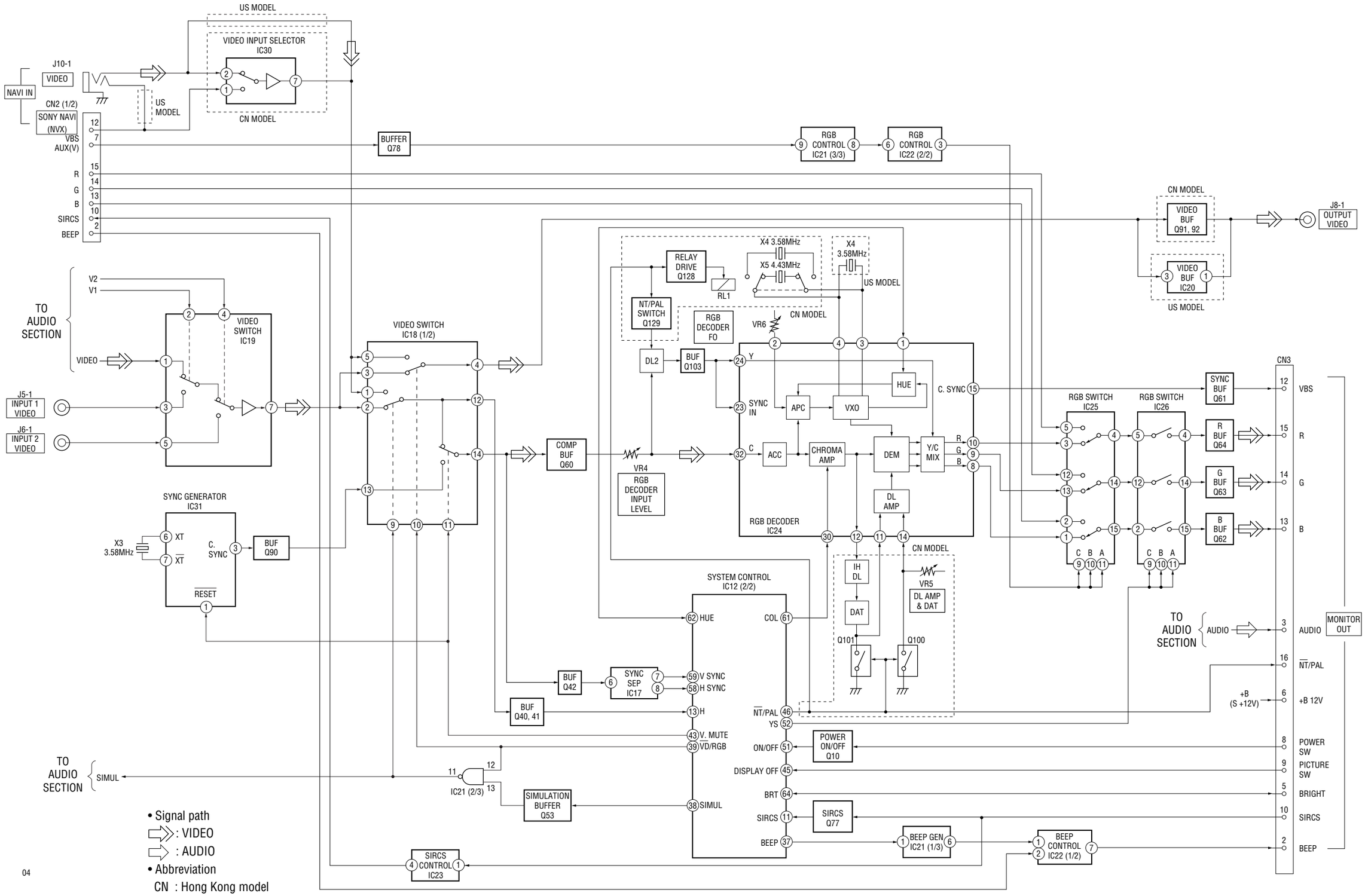


SECTION 4
DIAGRAMS

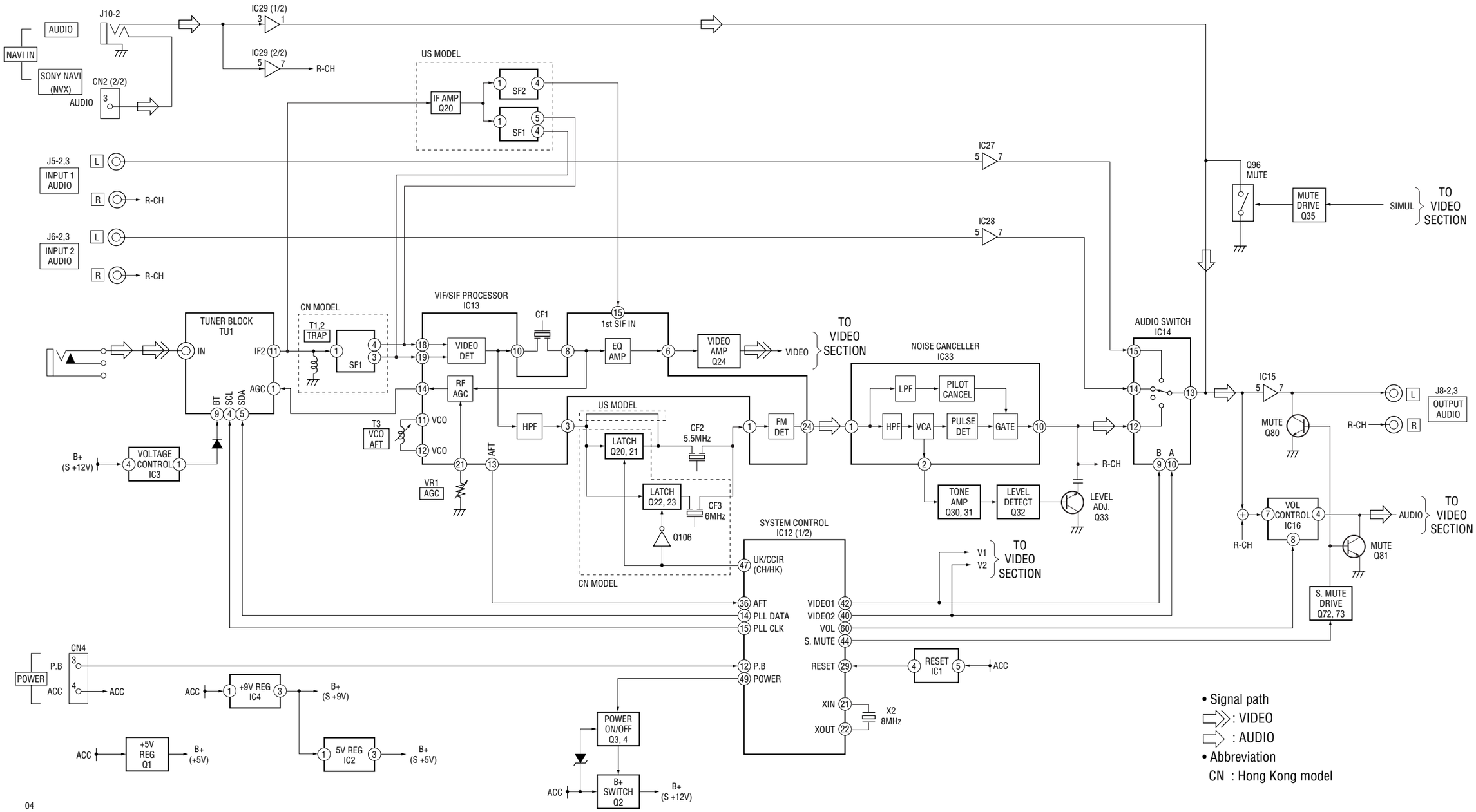
4-1. BLOCK DIAGRAM — MONITOR SECTION —



4-2. BLOCK DIAGRAM — TUNER UNIT (VIDEO) SECTION —



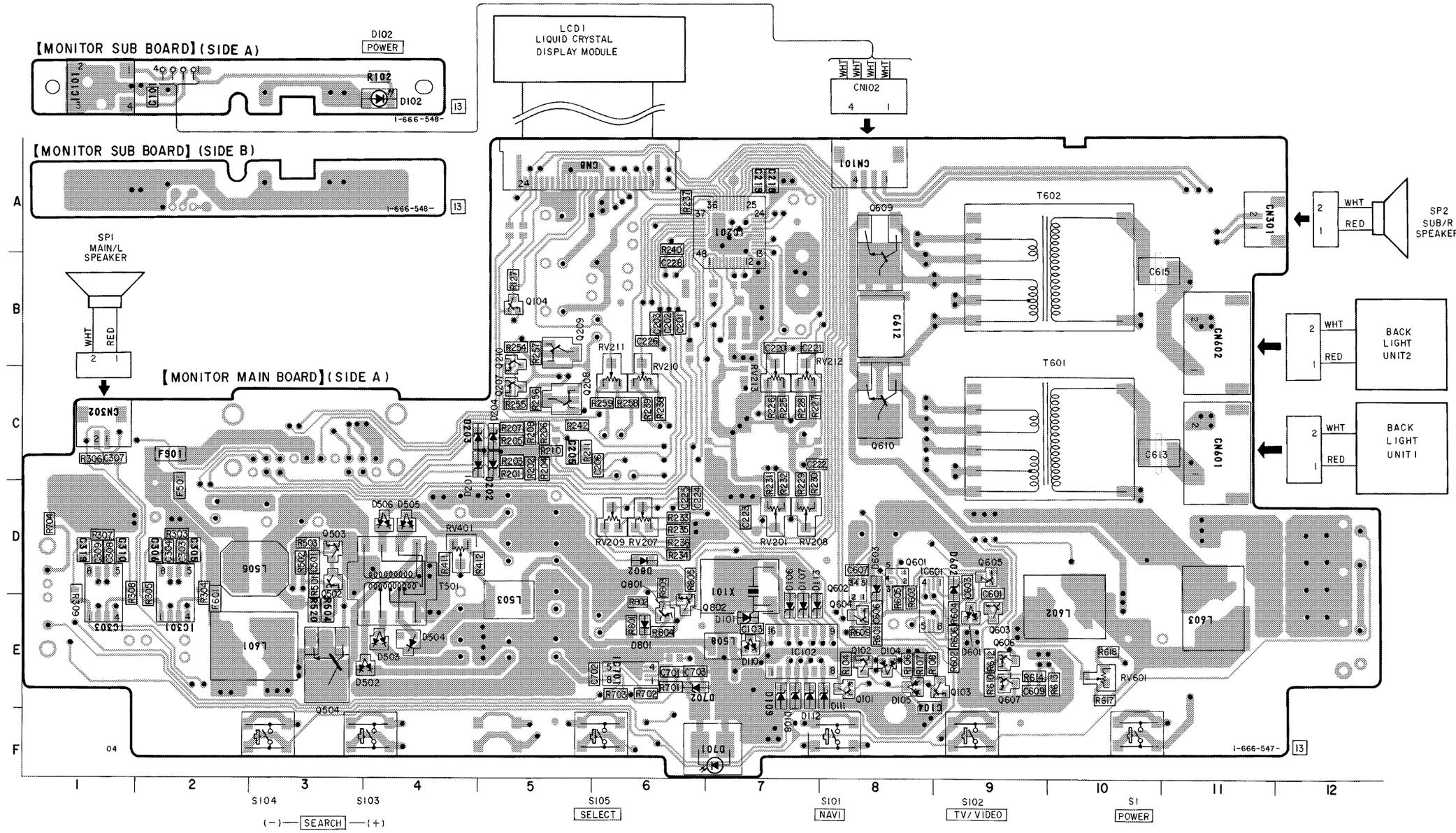
4-3. BLOCK DIAGRAM — TUNER UNIT (AUDIO) SECTION —



4-4. PRINTED WIRING BOARDS — MONITOR SECTION —

• **Semiconductor Location (side A)**

Ref. No.	Location
D101	E-7
D104	E-8
D105	E-8
D106	E-7
D107	E-7
D108	F-7
D109	E-7
D110	E-7
D111	E-8
D112	E-7
D113	E-7
D201	D-4
D202	C-5
D203	C-4
D204	C-5
D502	E-4
D503	E-4
D504	E-4
D505	D-4
D506	D-4
D601	E-9
D602	D-9
D603	D-8
D701	F-7
D702	E-6
D801	E-6
D802	D-6
IC102	E-7
IC201	A-7
IC301	E-2
IC303	E-1
IC601	D-9
IC701	E-6
Q101	E-8
Q102	E-8
Q103	E-9
Q104	B-5
Q207	C-5
Q208	C-5
Q209	B-5
Q210	B-5
Q502	E-3
Q503	D-3
Q504	F-3
Q601	D-8
Q602	E-8
Q603	E-9
Q604	E-8
Q605	D-9
Q606	E-9
Q607	E-9
Q609	A-8
Q610	C-8
Q801	D-6
Q802	E-7



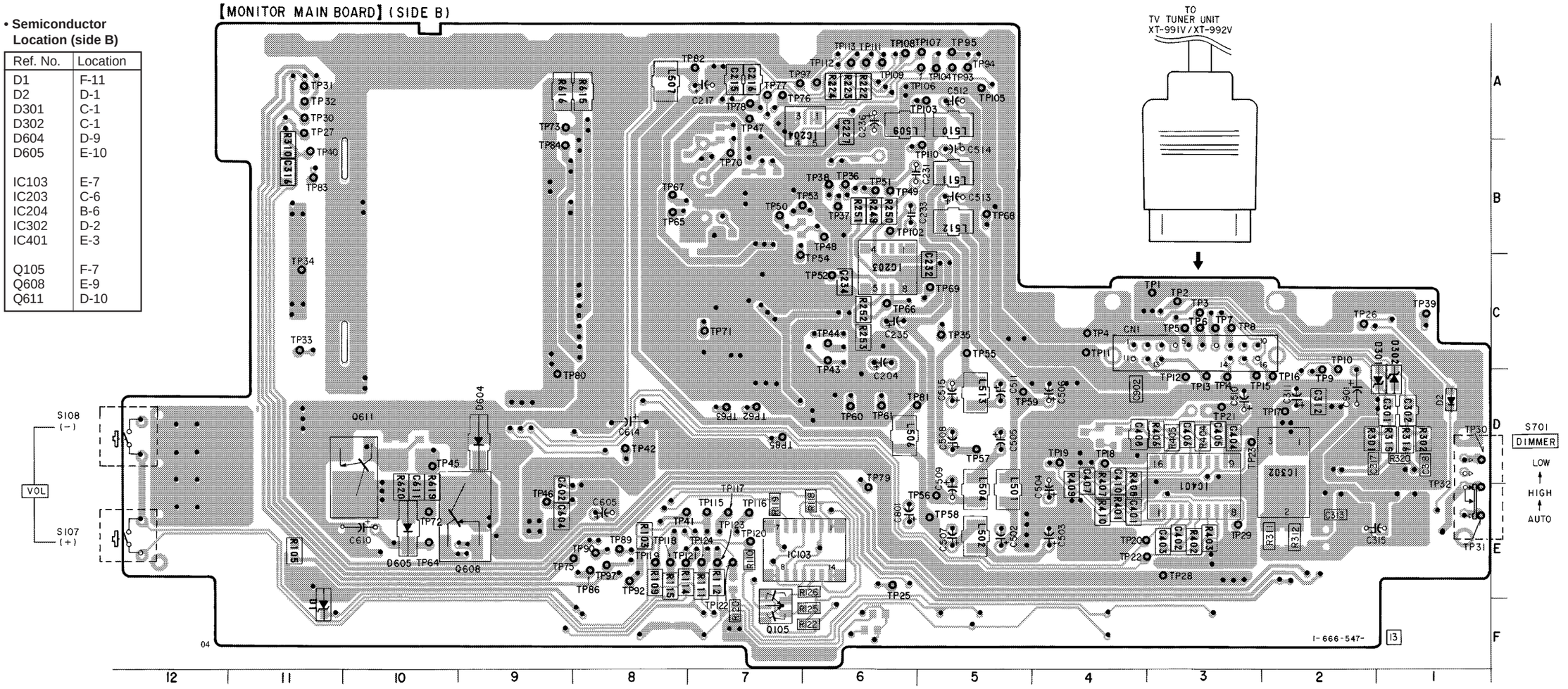
Note:

- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▒▒ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

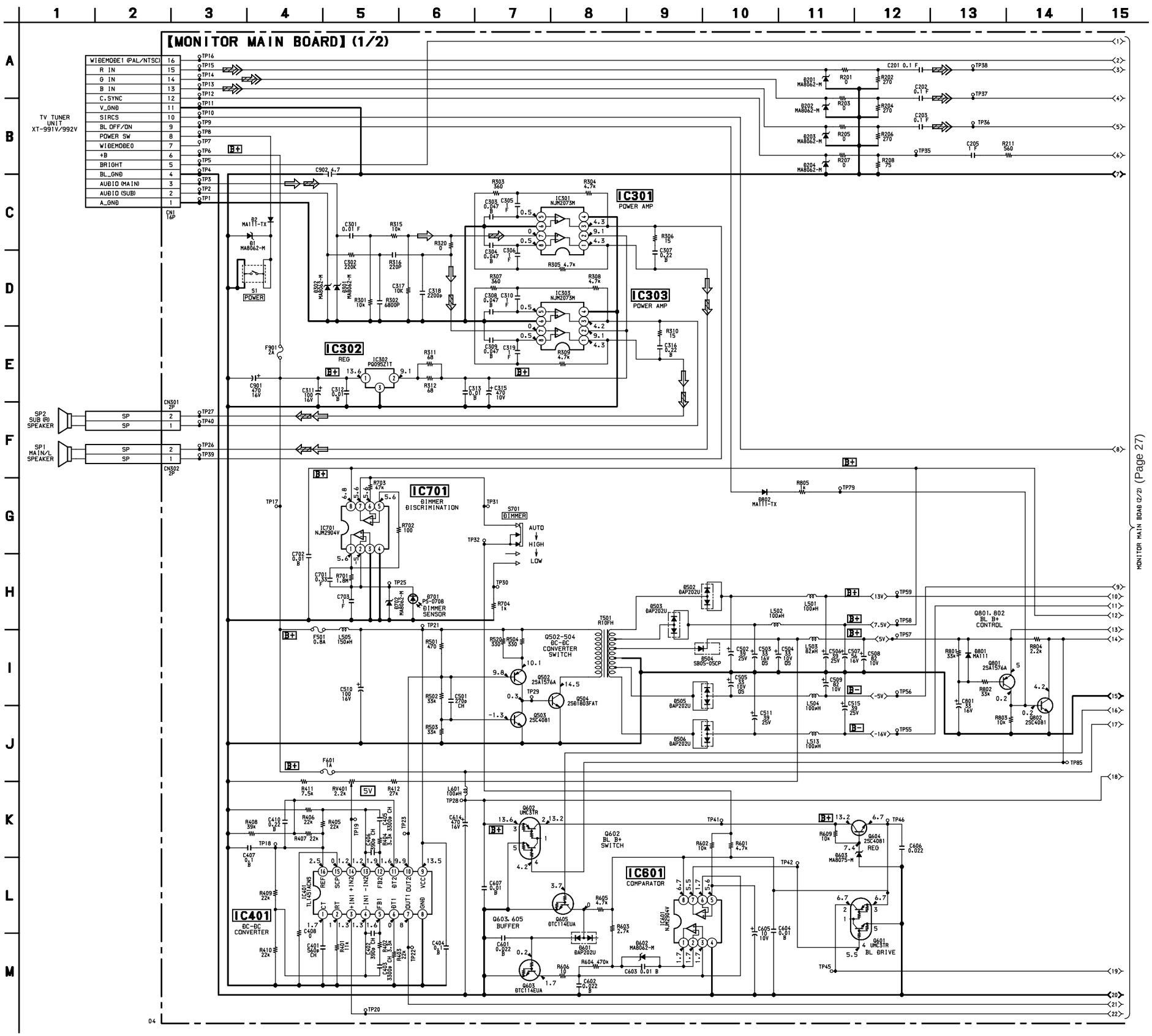
Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

• **Semiconductor Location (side B)**

Ref. No.	Location
D1	F-11
D2	D-1
D301	C-1
D302	C-1
D604	D-9
D605	E-10
IC103	E-7
IC203	C-6
IC204	B-6
IC302	D-2
IC401	E-3
Q105	F-7
Q608	E-9
Q611	D-10



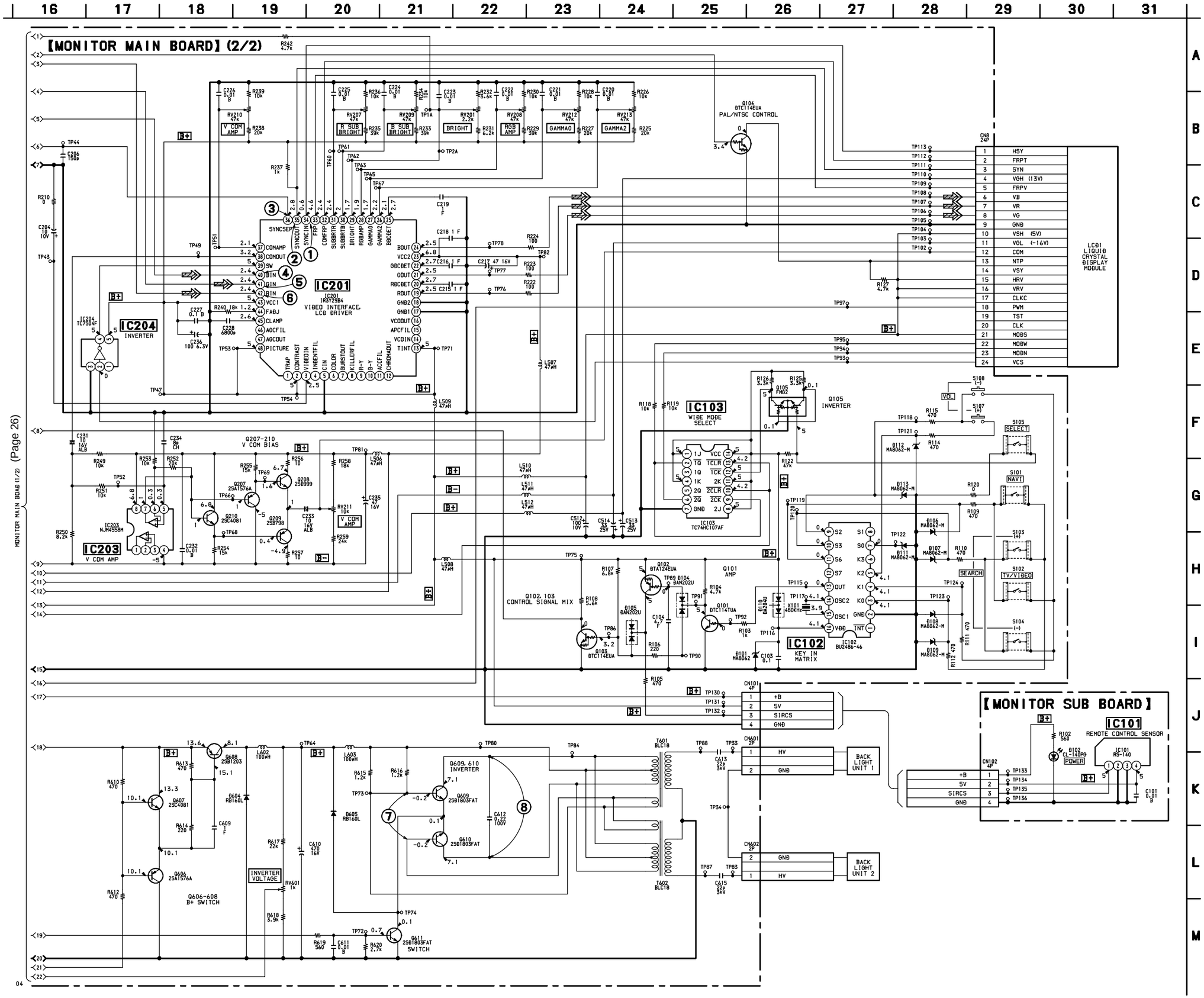
4-5. SCHEMATIC DIAGRAM — MONITOR SECTION (1/2) — • Refer to page 45 for IC Block Diagrams.



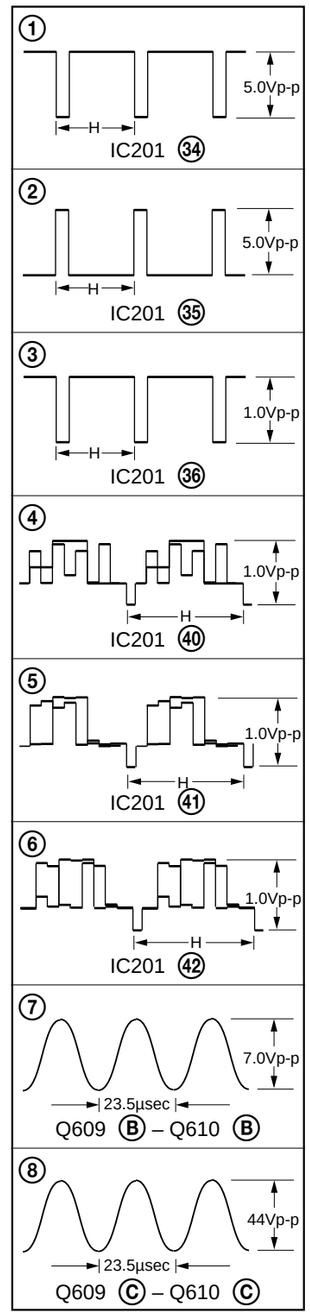
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- B− : B− Line.
- ▬ : adjustment for repair.
- CN1 of XVM-750W is connected to CN3 (MONITOR OUT) of Tuner Unit (XT-991V or XT-992V) with a monitor cable. Power voltage is dc 14.4 V from ACC cord of the Tuner Unit and fed with regulated dc power supply. (XVM-750W)
- CN1 of XVM-750W is connected to CN3 (MONITOR OUT) of Tuner Unit (XT-991V or XT-992V) with a monitor cable. Voltage and waveforms are measured at input the color bar signal from INPUT 1 VIDEO (J5-3) jack of the Tuner Unit. (XVM-750W)
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : TV and External Video (AUDIO)
  - ⇨ : NAVI (AUDIO)
  - ⇨ : VIDEO

4-6. SCHEMATIC DIAGRAM — MONITOR SECTION (2/2) — • Refer to page 45 for IC Block Diagrams.

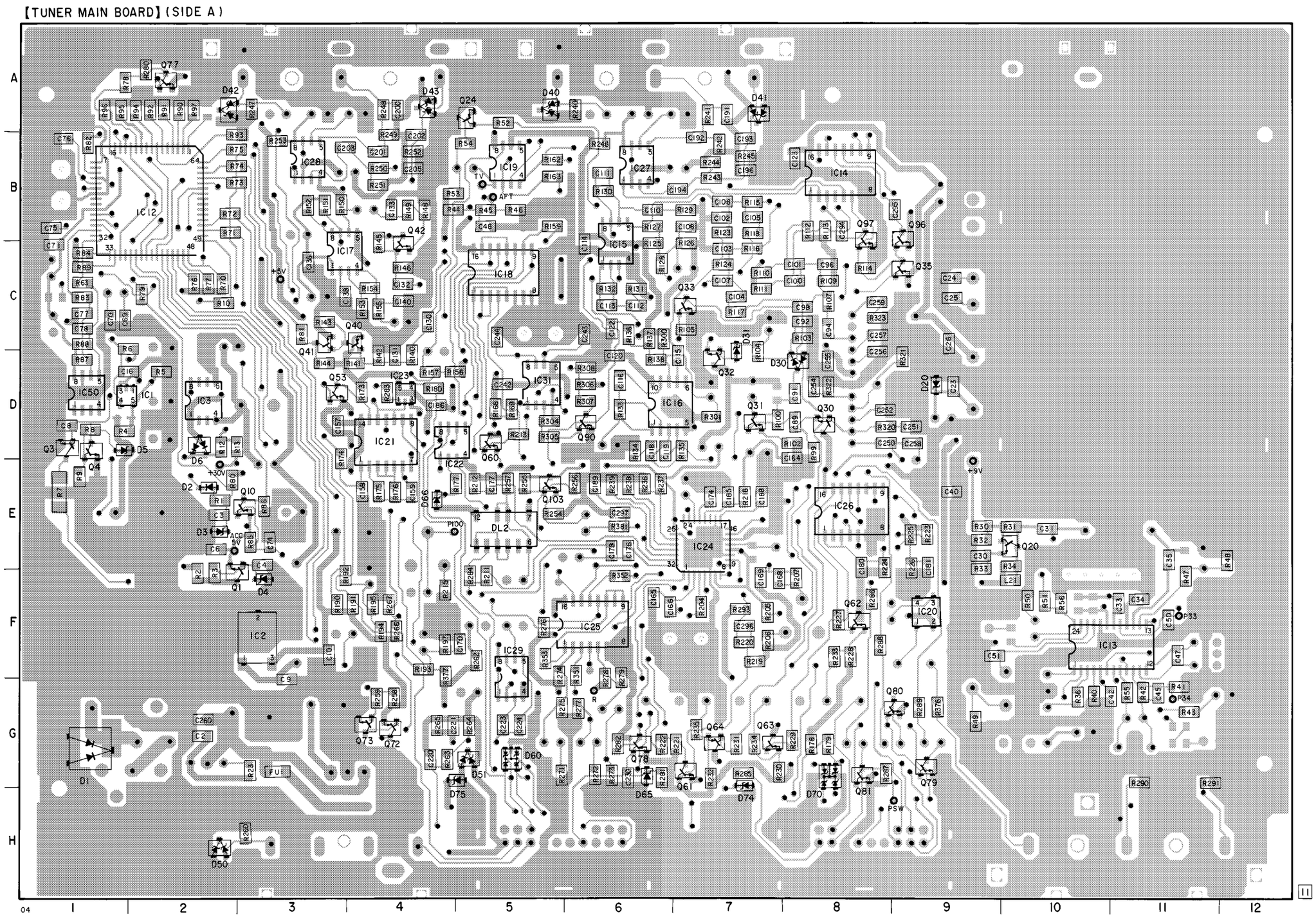


• Waveforms



4-7. PRINTED WIRING BOARD — TUNER UNIT (US Model) —

【TUNER MAIN BOARD】(SIDE A)



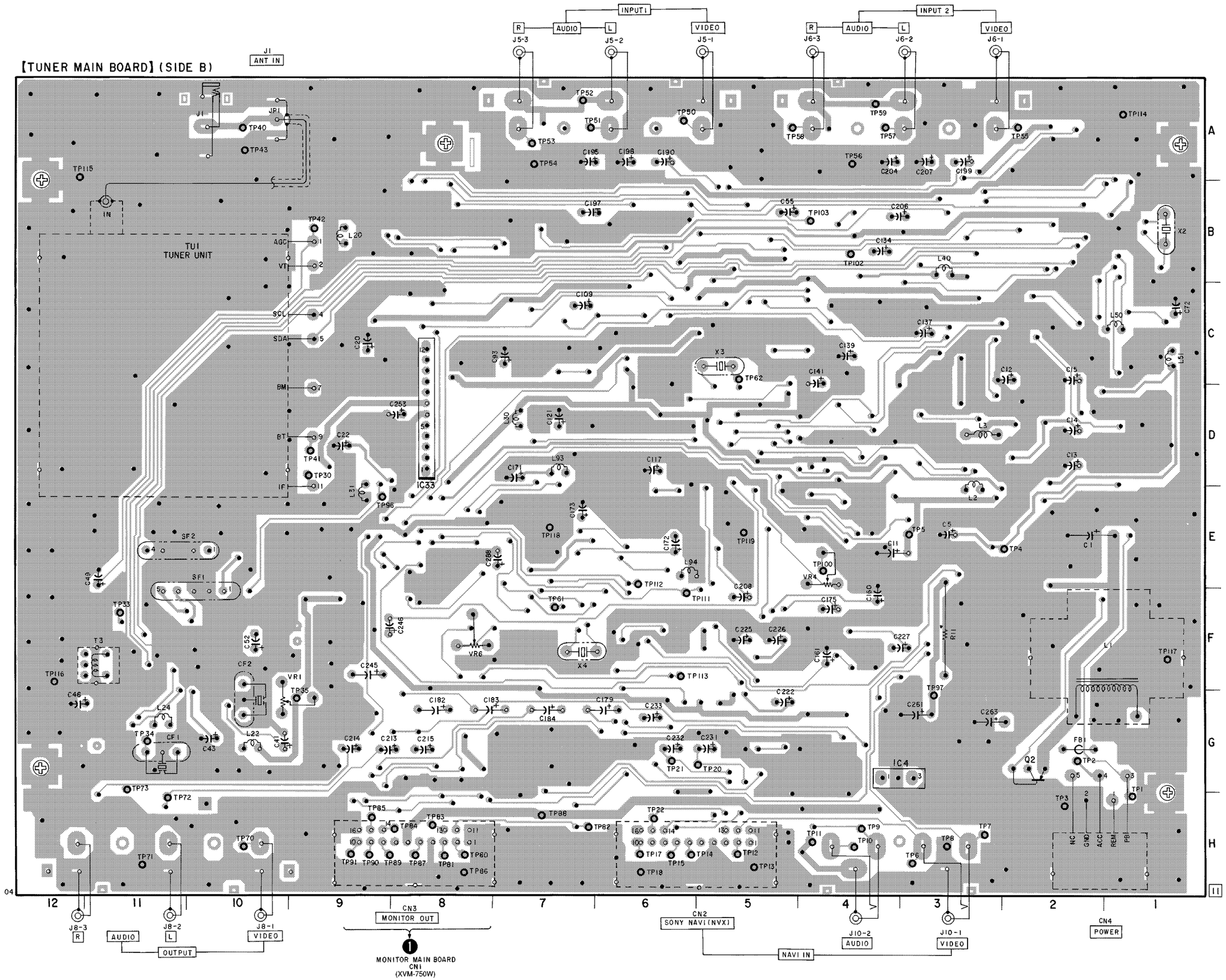
• Semiconductor Location (side A)

Ref. No.	Location
D1	G-1
D2	E-2
D3	E-2
D4	F-3
D5	D-2
D6	D-2
D20	D-9
D30	C-8
D31	C-7
D40	A-5
D41	A-7
D42	A-2
D43	A-4
D50	H-2
D51	G-5
D60	G-5
D65	H-6
D66	E-4
D70	H-8
D74	H-7
D75	H-5
IC1	D-2
IC2	F-3
IC3	D-2
IC12	B-2
IC13	F-10
IC14	B-8
IC15	B-6
IC16	D-7
IC17	B-3
IC18	C-5
IC19	B-5
IC20	F-9
IC21	D-4
IC22	D-4
IC23	D-4
IC24	E-7
IC25	F-6
IC26	E-8
IC27	B-6
IC28	B-3
IC29	F-5
IC31	D-5
IC50	D-1
Q1	F-3
Q3	D-1
Q4	E-1
Q10	E-3
Q20	E-10
Q24	A-5
Q30	D-8
Q31	D-7
Q32	D-7
Q33	C-7
Q35	C-9
Q40	C-4
Q41	C-3
Q42	B-4
Q53	D-3
Q60	D-5
Q61	G-7
Q62	F-8
Q63	G-7
Q64	G-7
Q72	G-4
Q73	G-4
Q77	A-2
Q78	G-6
Q79	G-9
Q80	C-8
Q81	H-8
Q90	D-6
Q96	C-9
Q97	B-8
Q103	E-5

Note:
- ● : Through hole.
- ▒ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.

【TUNER MAIN BOARD】(SIDE B)

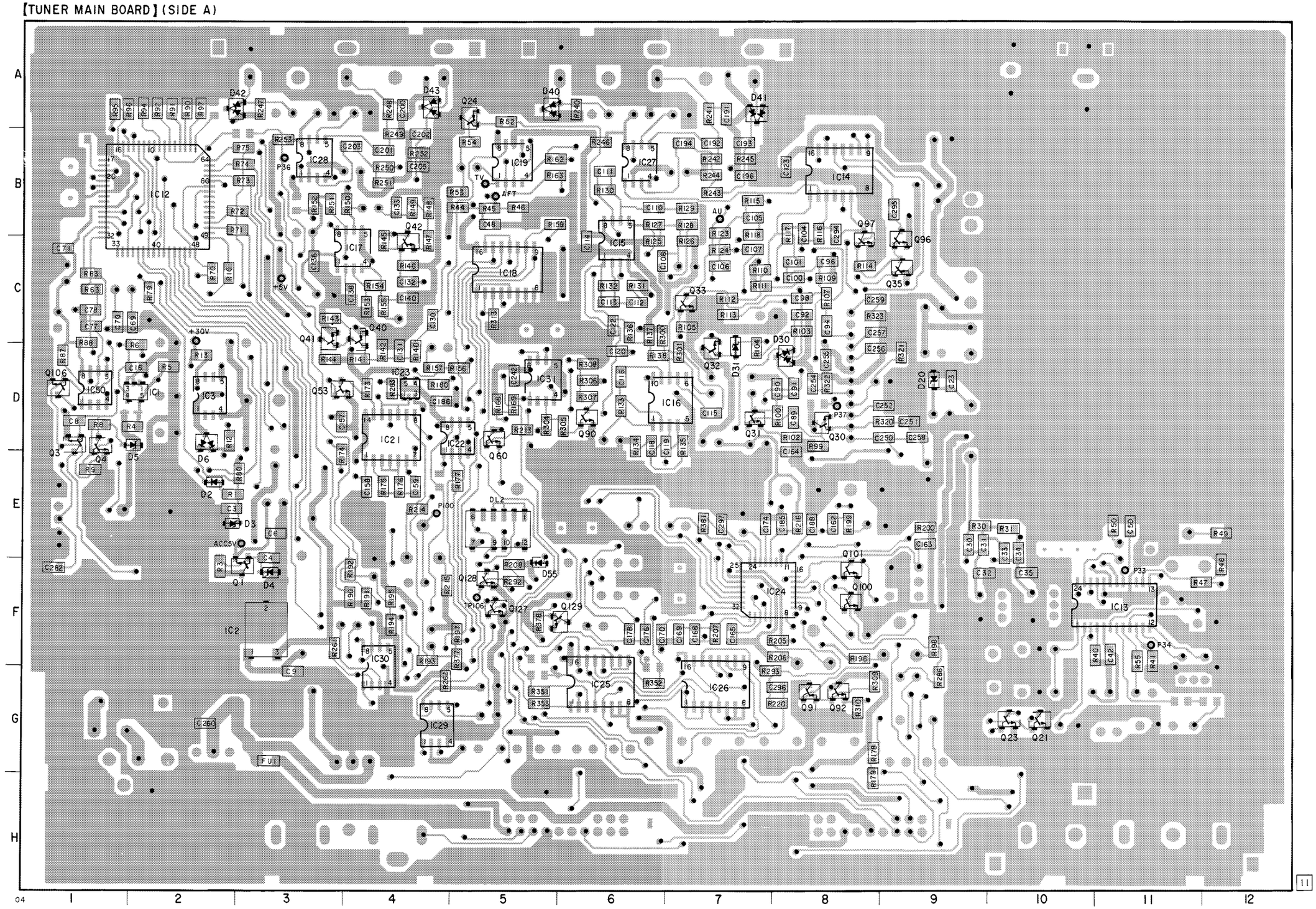


• **Semiconductor Location (side B)**

Ref. No.	Location
IC4	G-3
IC33	E-8
Q2	G-2

4-8. PRINTED WIRING BOARD — TUNER UNIT (Hong Kong Model) —

【TUNER MAIN BOARD】(SIDE A)



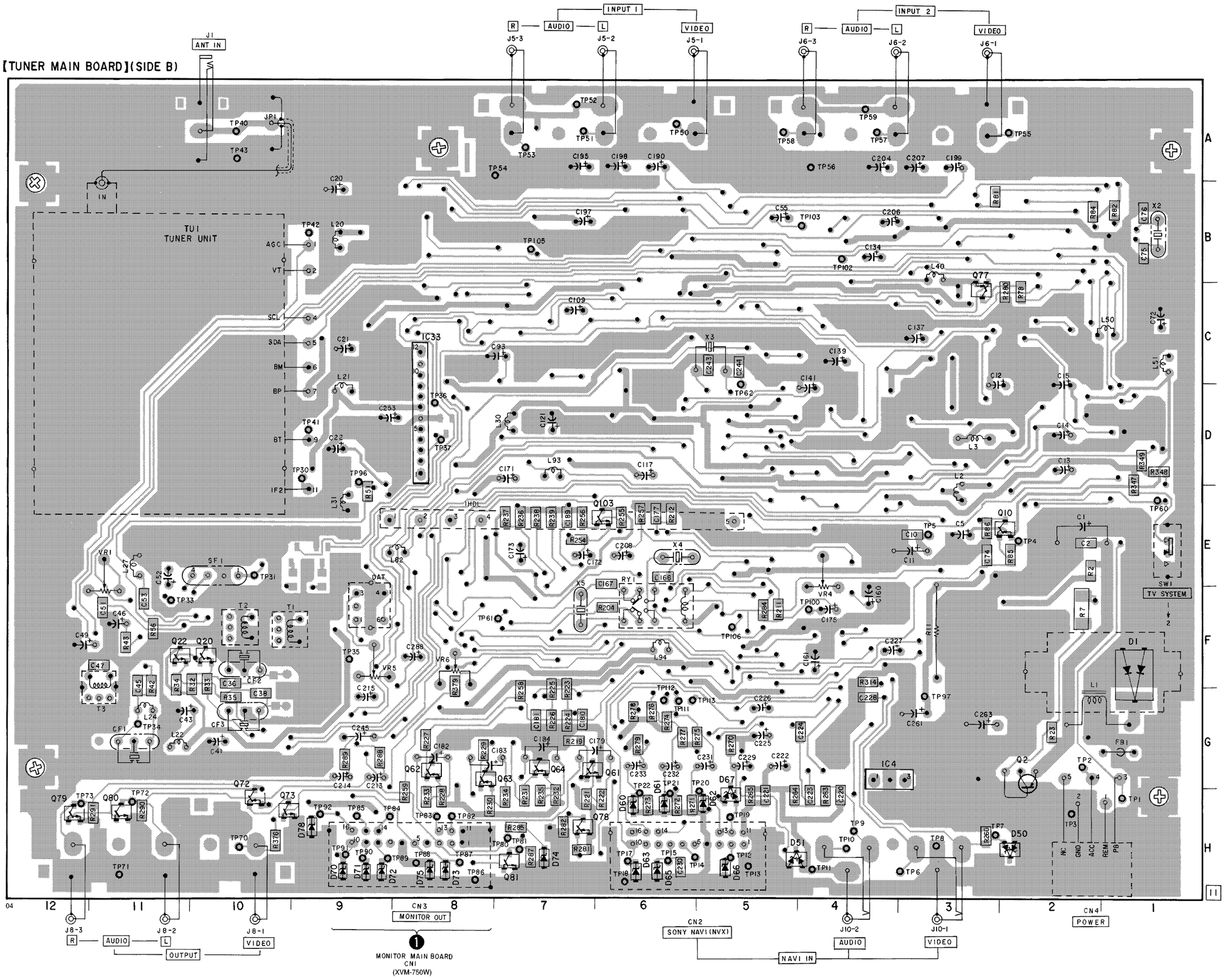
- **Semiconductor Location (side A)**

Ref. No.	Location
D2	E-2
D3	E-3
D4	F-3
D5	E-2
D6	E-2
D20	D-9
D30	D-8
D31	D-7
D40	A-5
D41	A-7
D42	A-3
D43	A-4
D55	E-5
IC1	D-2
IC2	F-3
IC3	D-2
IC12	B-2
IC13	F-11
IC14	B-8
IC15	B-6
IC16	D-7
IC17	B-4
IC18	C-5
IC19	B-5
IC21	D-4
IC22	D-5
IC23	D-4
IC24	F-8
IC25	G-6
IC26	F-7
IC27	B-6
IC28	B-3
IC29	G-4
IC30	F-4
IC31	D-5
IC50	D-1
Q1	F-3
Q3	E-1
Q4	E-1
Q21	G-10
Q23	G-10
Q24	A-5
Q30	E-8
Q31	D-7
Q32	D-7
Q33	C-7
Q35	C-9
Q40	C-4
Q41	C-3
Q42	B-4
Q53	D-3
Q60	D-5
Q90	D-6
Q91	G-8
Q92	G-8
Q96	C-9
Q97	B-8
Q100	F-8
Q101	E-8
Q106	D-1
Q127	F-5
Q128	F-5
Q129	F-6

Note:
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side (Side B): Parts on the pattern face side seen from the pattern face are indicated.
Parts face side (Side A): Parts on the parts face side seen from the parts face are indicated.

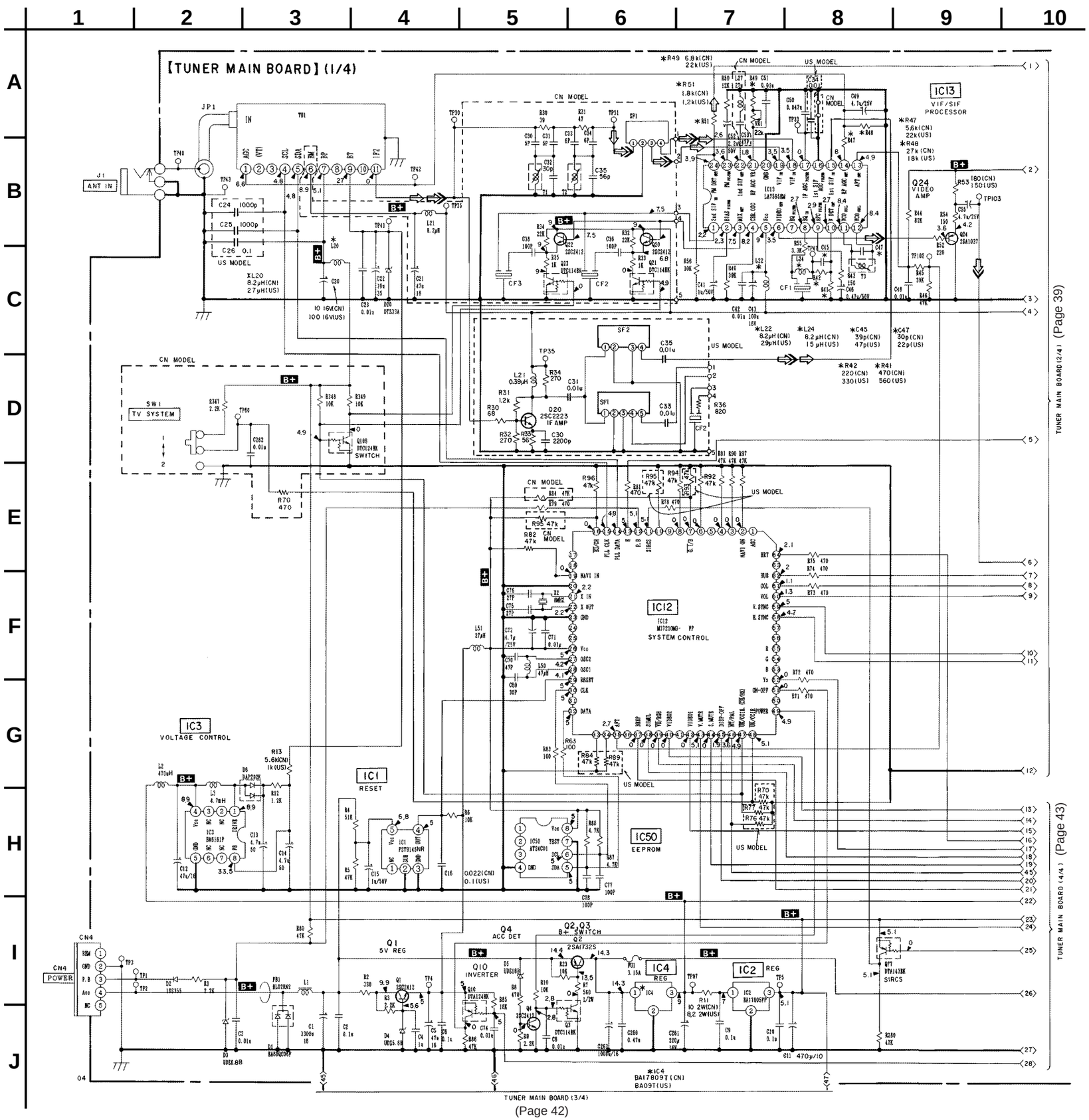
【TUNER MAIN BOARD】(SIDE B)



- **Semiconductor Location (side B)**

Ref. No.	Location
D1	F-1
D50	H-2
D51	H-4
D60	G-6
D61	G-6
D62	H-5
D63	H-6
D65	H-6
D66	H-5
D67	G-5
D70	H-9
D71	H-9
D72	H-8
D73	H-8
D74	H-7
D75	H-8
D78	H-9
IC4	G-4
IC33	C-8
Q2	G-2
Q10	E-2
Q20	F-10
Q22	F-11
Q61	G-6
Q62	G-8
Q63	G-7
Q64	G-7
Q72	G-10
Q73	G-10
Q77	B-3
Q78	H-6
Q79	G-12
Q80	G-11
Q81	H-7
Q103	E-6

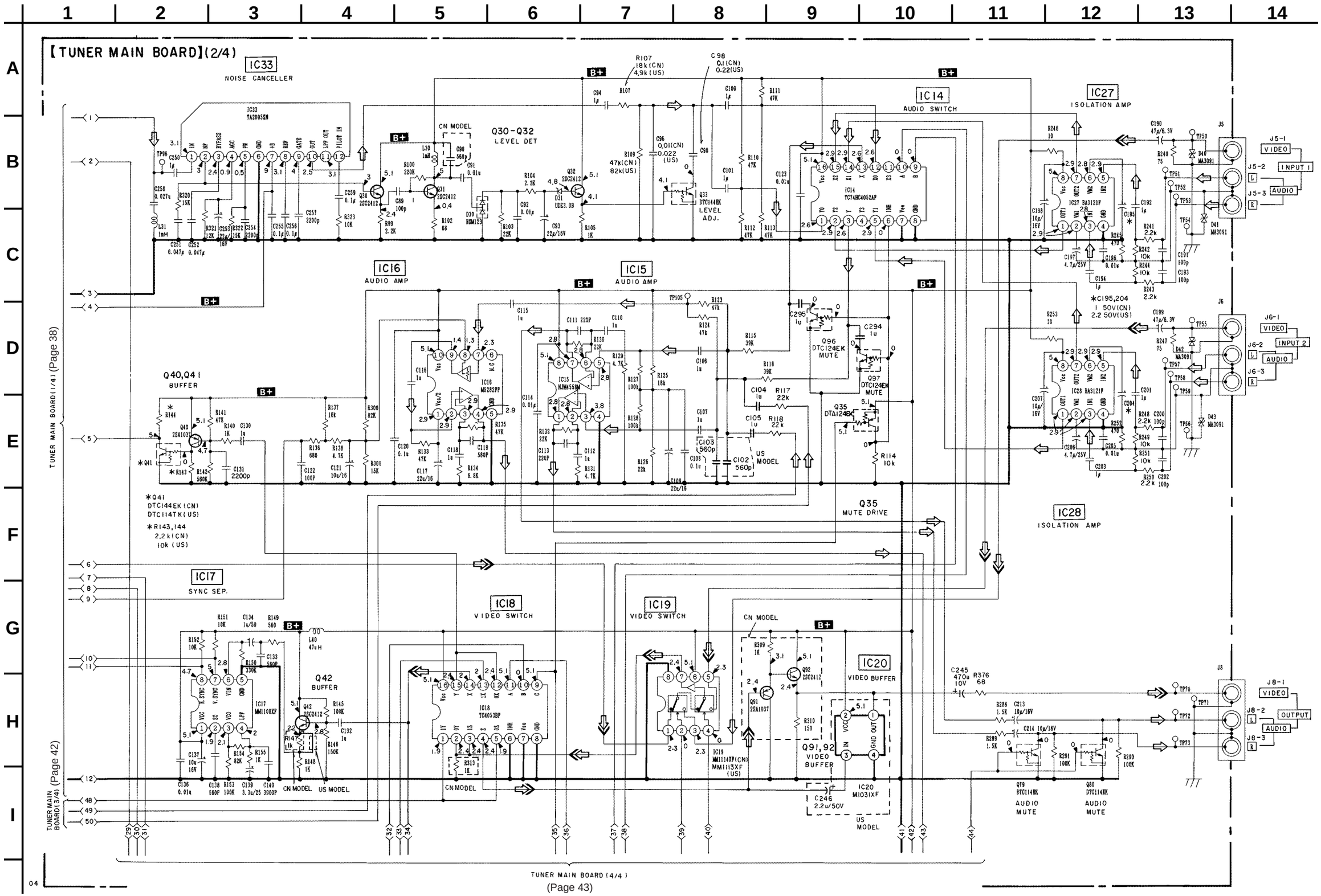
4-9. SCHEMATIC DIAGRAM — TUNER UNIT (1/4) — • Refer to page 47 for IC Block Diagrams.



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC CN4.
- Voltage is dc with respect to ground under no-signal condition.
- Signal path.
  ⇨ : VIDEO
  ⇨ : AUDIO
- Abbreviation
  CN : Hong Kong model.

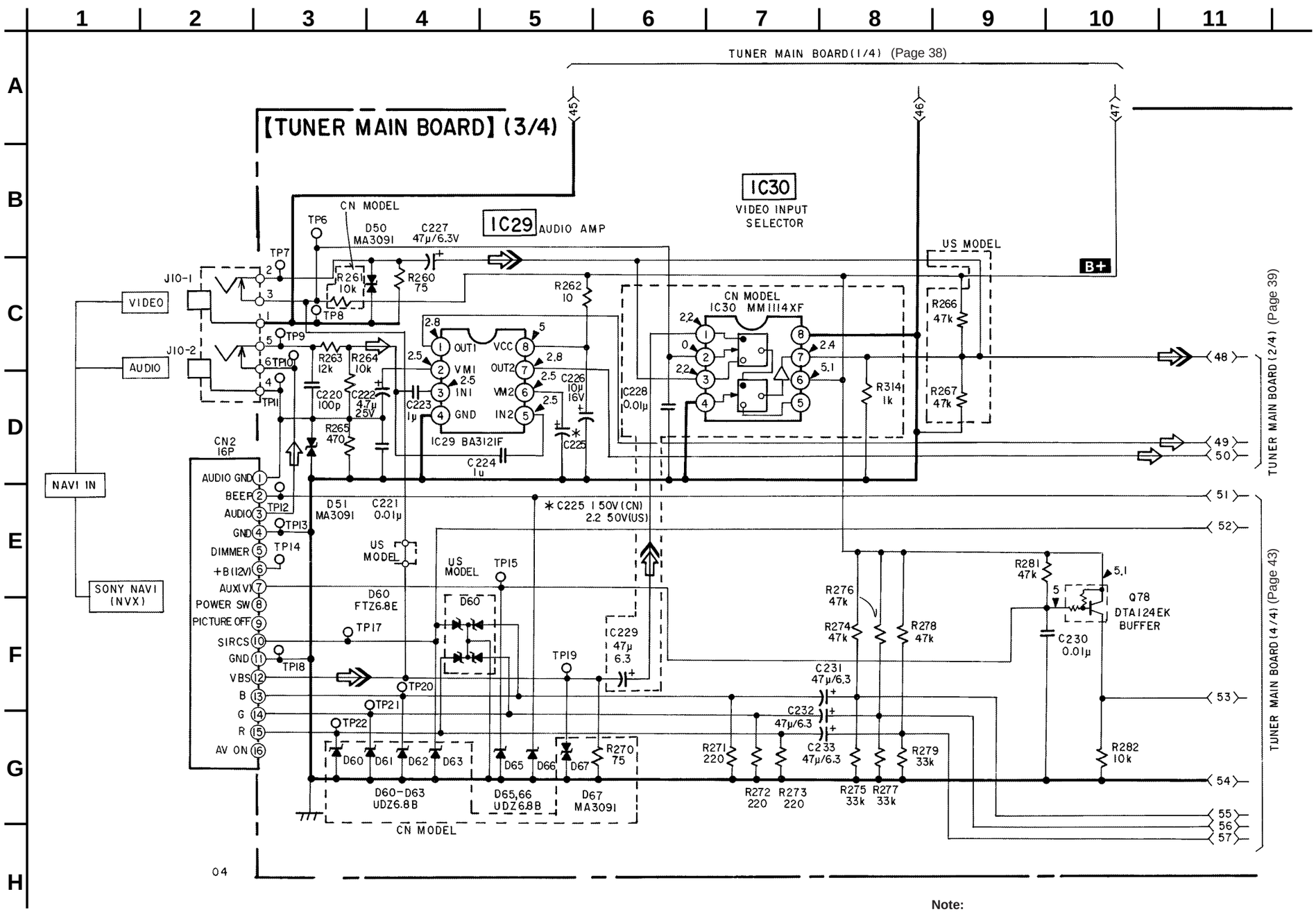
4-10. SCHEMATIC DIAGRAM — TUNER UNIT (2/4) — • Refer to page 47 for IC Block Diagrams.



Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- [ ] : panel designation.
- **B+** : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC CN4.
- Voltage is dc with respect to ground under no-signal condition.
- Signal path.
  ⇒ : VIDEO
  ⇨ : AUDIO
- Abbreviation
  CN : Hong Kong model.

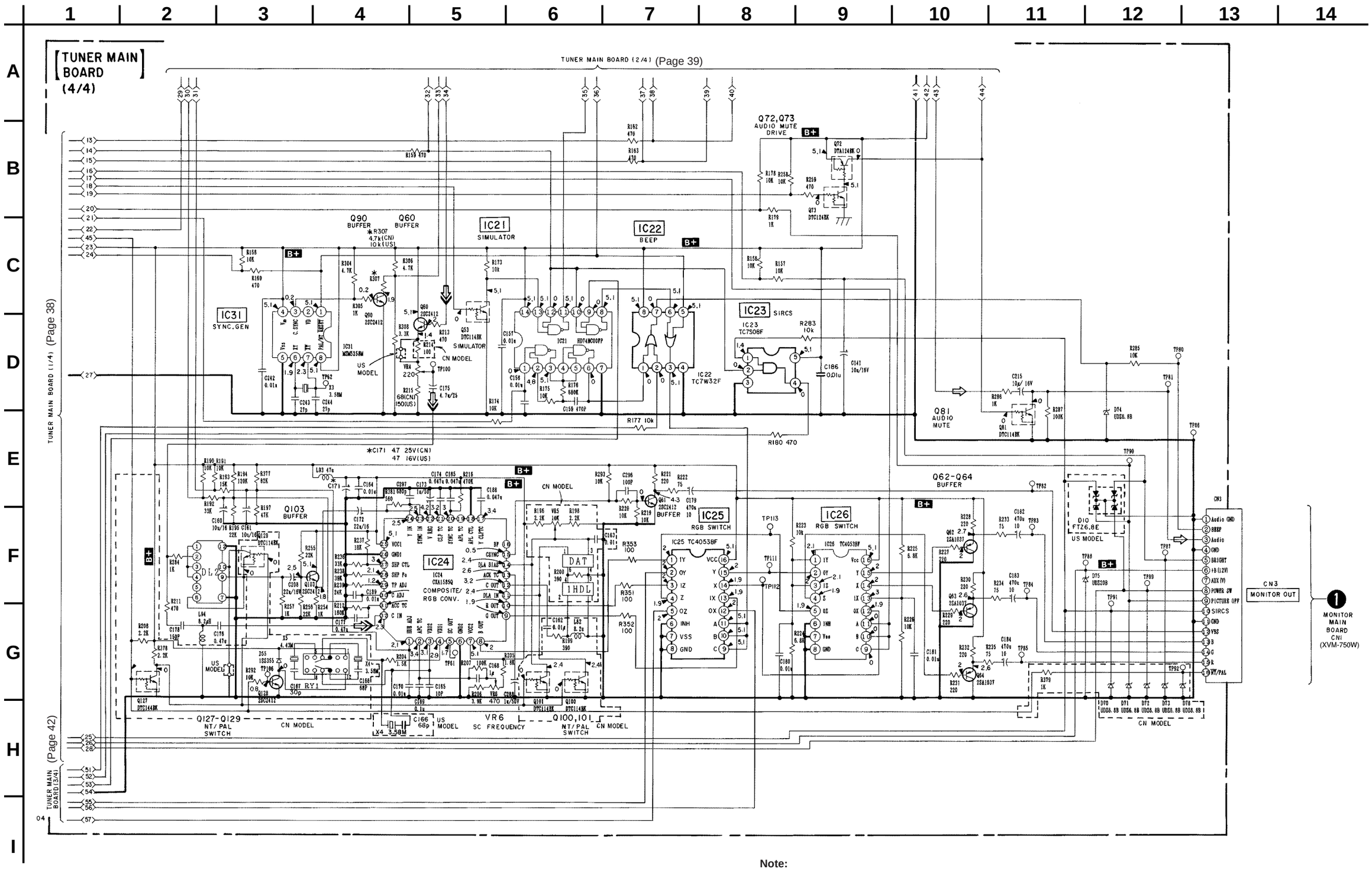
4-11. SCHEMATIC DIAGRAM — TUNER UNIT (3/4) — • Refer to page 47 for IC Block Diagrams.



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC CN4.
- Voltage is dc with respect to ground under no-signal condition.
- Signal path.
  ⇨ : VIDEO
  ⇨ : AUDIO
- Abbreviation
  CN : Hong Kong model.

4-12. SCHEMATIC DIAGRAM — TUNER UNIT (4/4) — • Refer to page 48 for IC Block Diagrams.

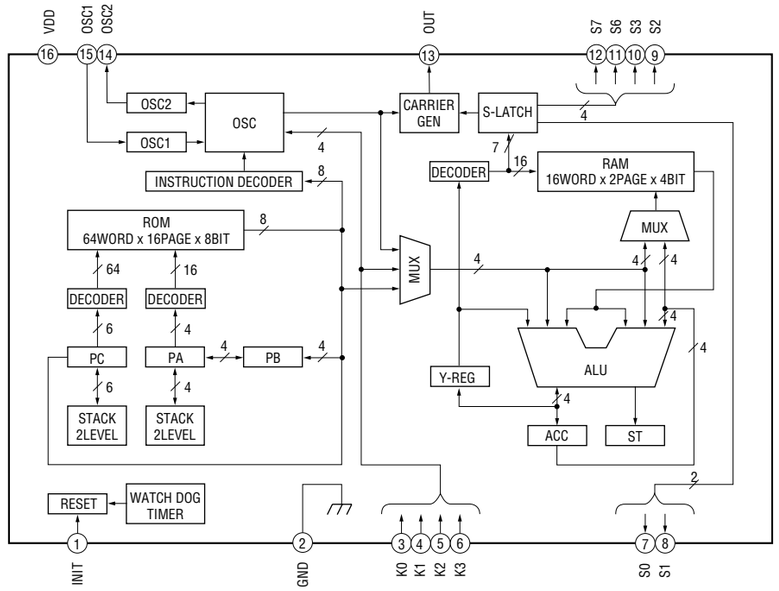


Note:

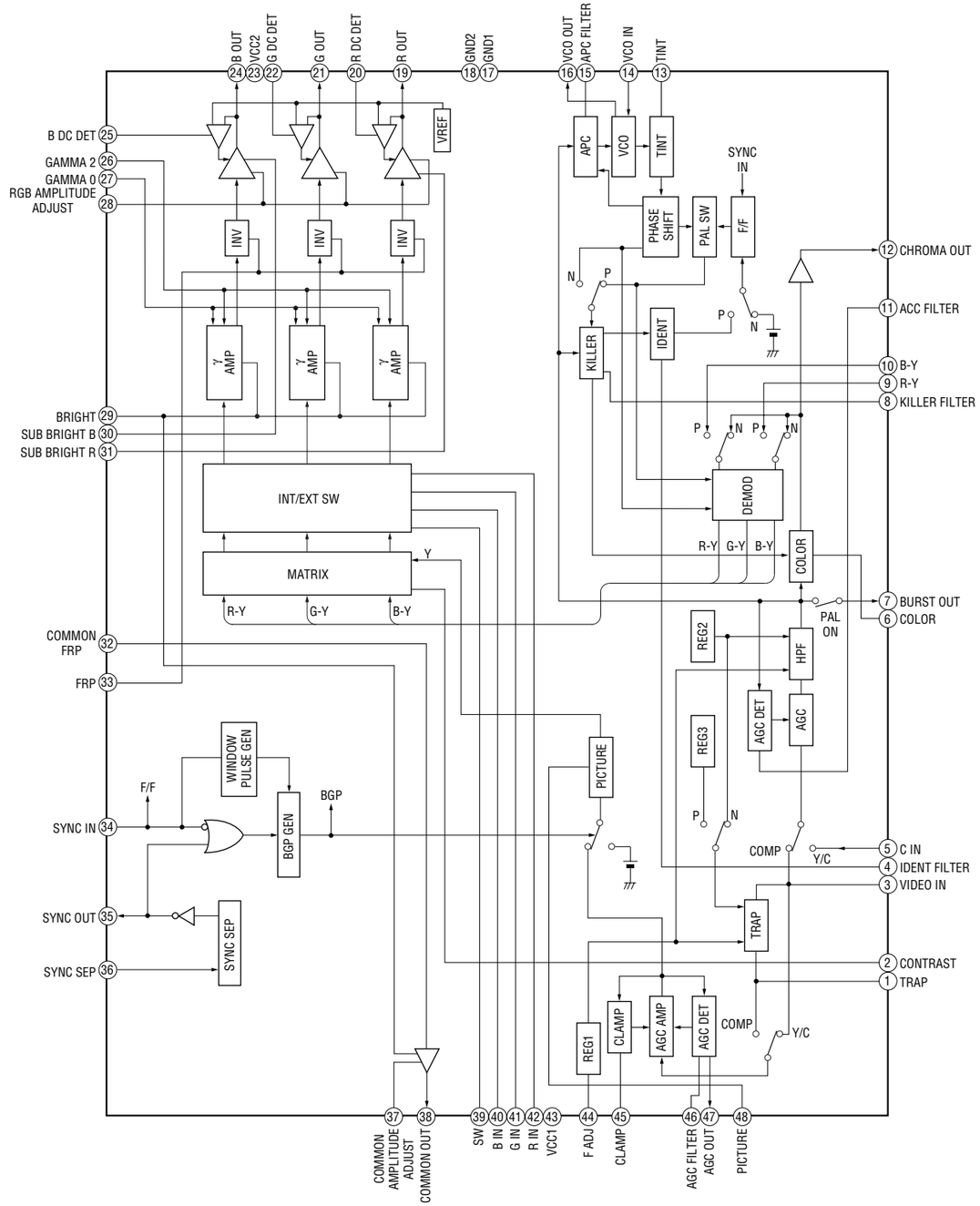
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC CN4.
- Voltage is dc with respect to ground under no-signal condition.
- Signal path.
  ⇨ : VIDEO
  ⇨ : AUDIO
- Abbreviation
  CN : Hong Kong model.

• IC Block Diagrams

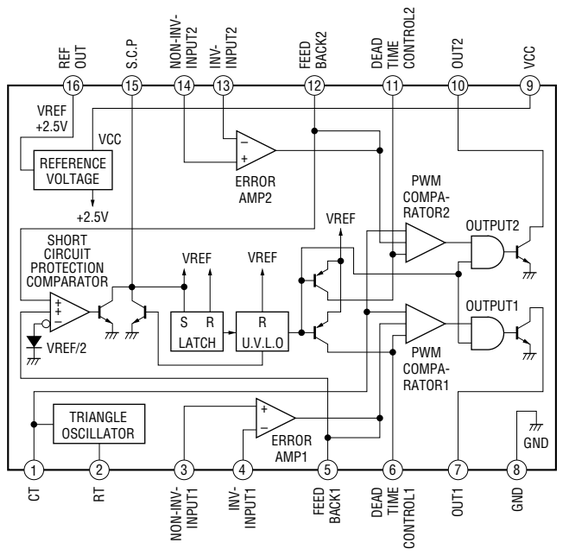
IC102 BU2486-46



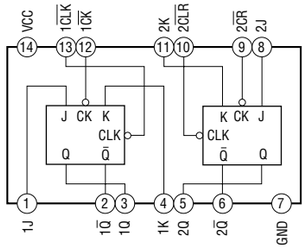
IC201 IR3Y29B4



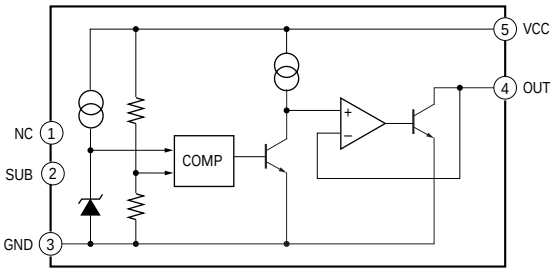
IC401 TL1451ACNS



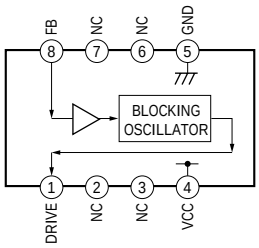
IC103 TC74HC107AF



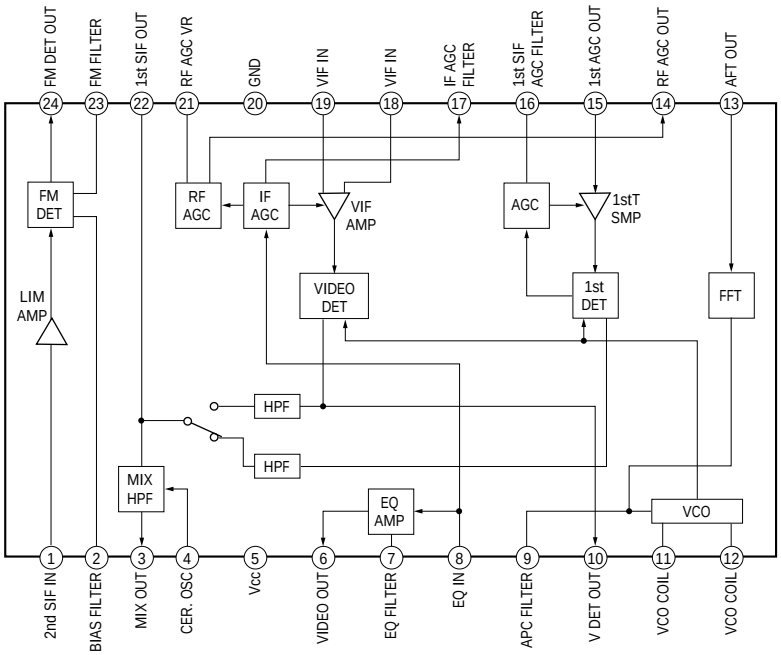
IC1 PST9145NR



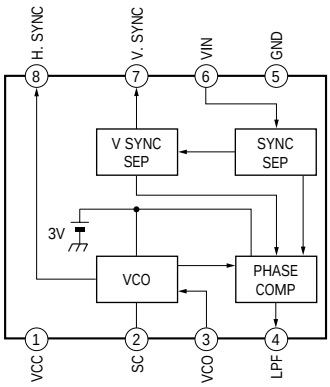
IC3 BA6161F



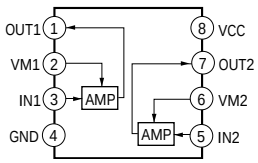
IC13 LA7565EM



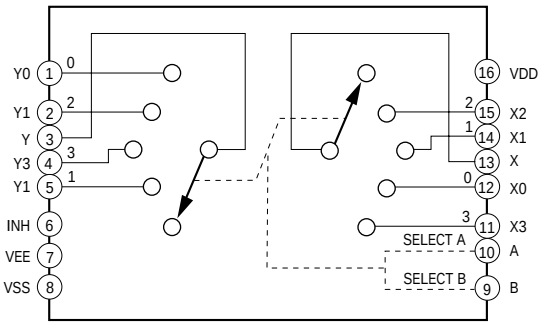
IC17 MM1108XF



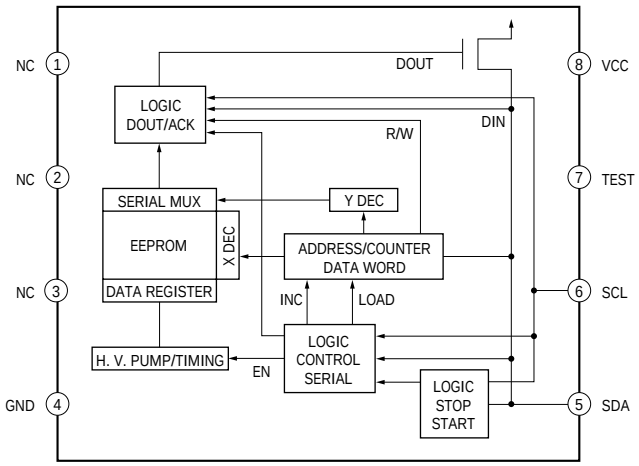
IC27 – 29 BA3121F



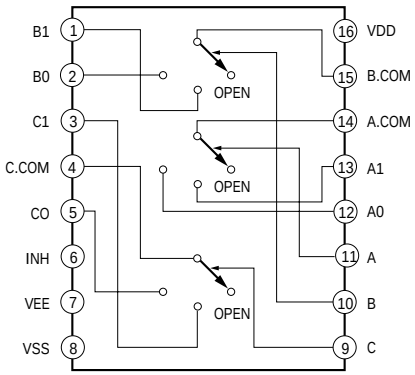
IC14 TC74HC4052AF



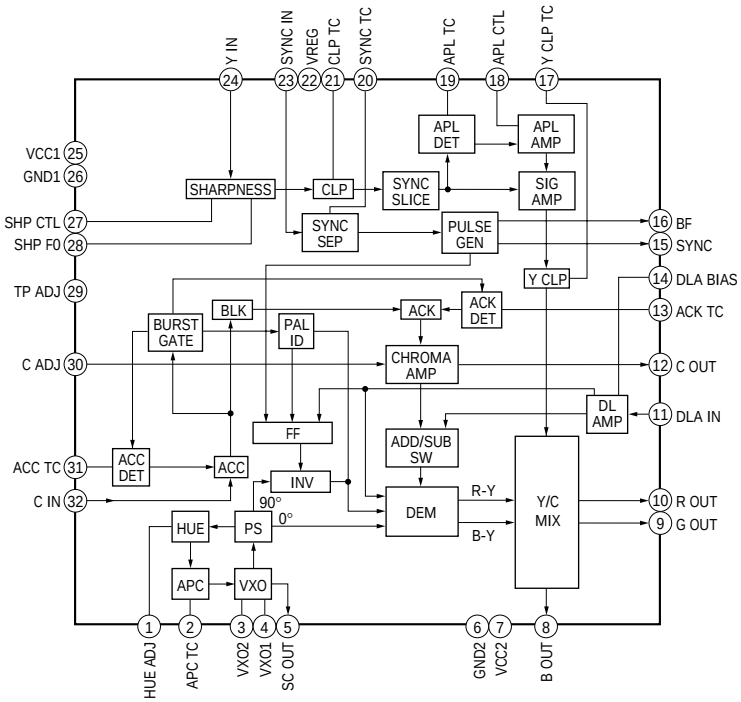
IC50 AT24C01



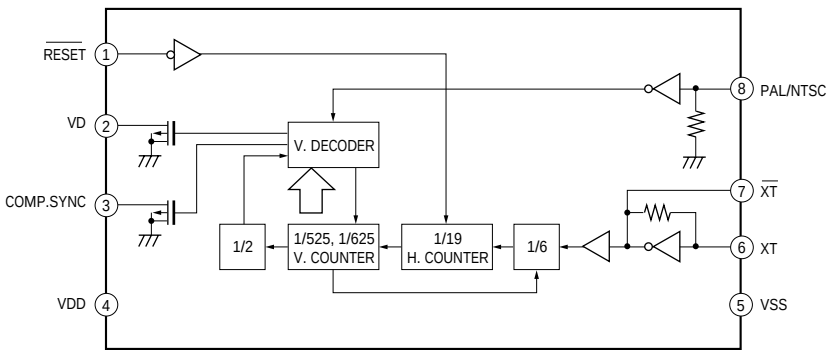
IC18, 25, 26 TC4053BF



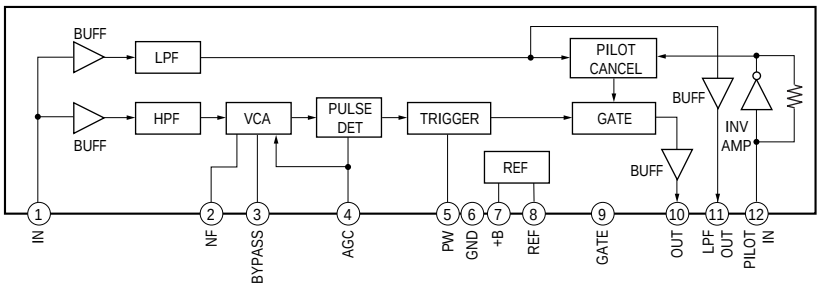
IC24 CXA1585Q



IC31 MSM5258M



IC33 TA2005SN

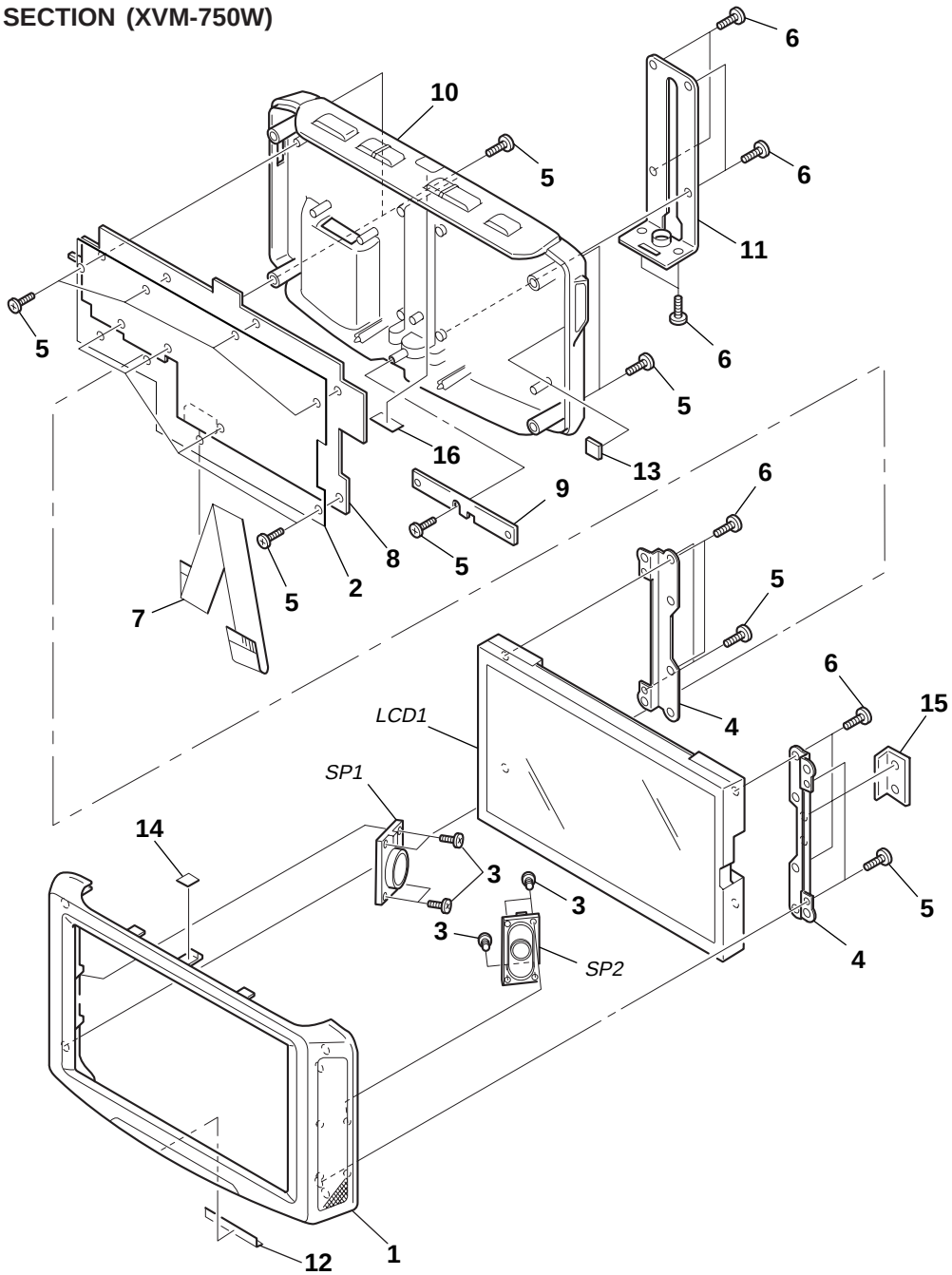


SECTION 5
EXPLODED VIEWS

NOTE:

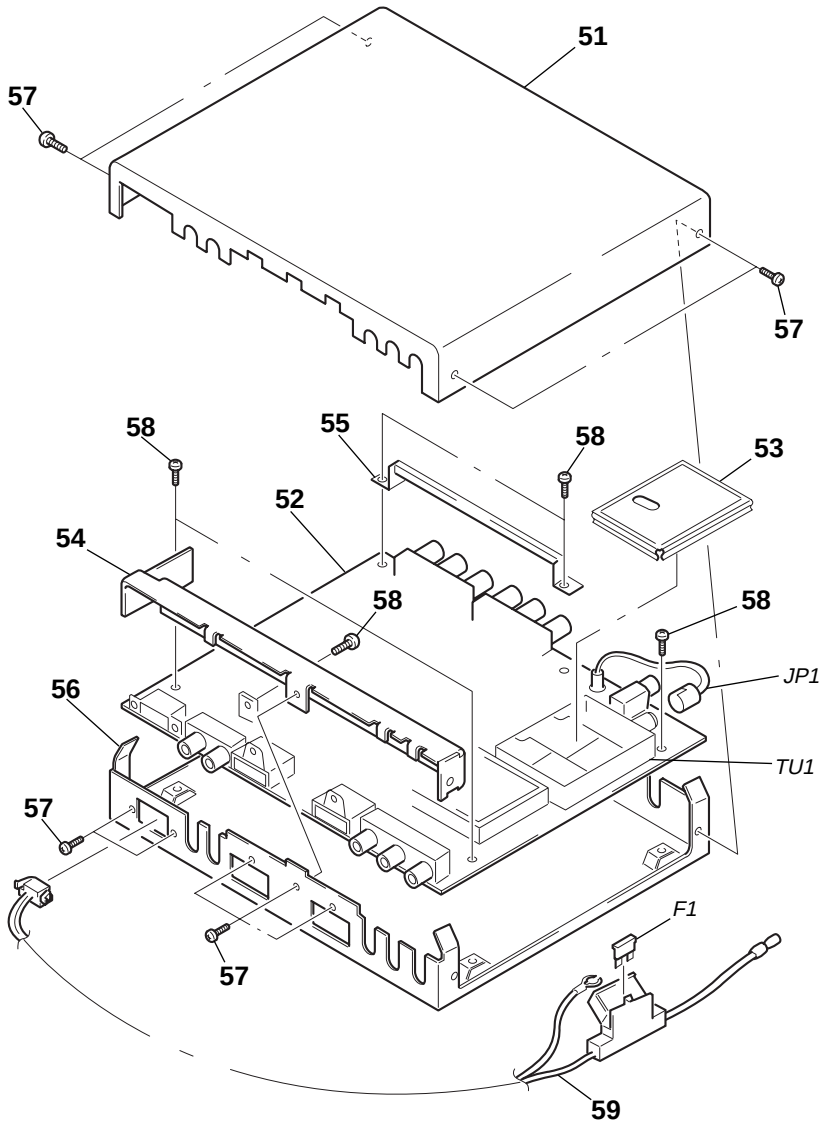
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CN : Hong Kong model

5-1. MONITOR SECTION (XVM-750W)



Ref. No.	Part No.	Description	Remark
1	X-3377-549-1	PANEL ASSY, FRONT	
* 2	3-018-155-01	SHEET (MAIN PC BOARD)	
3	3-018-974-01	SCREW (2X5)	
* 4	3-014-835-01	BRACKET (W), LCD	
5	3-713-790-21	SCREW (M2X6), TAPPING, P3	
6	3-016-188-01	SCREW (2.6X5)	
7	1-782-596-11	CABLE, FLAT 24P	
* 8	A-3317-721-A	MONITOR MAIN BOARD, COMPLETE	
* 9	1-666-548-11	MONITOR SUB BOARD	
10	X-3377-550-1	PANEL ASSY, REAR	
11	3-014-834-01	BRACKET (W), STAND	
* 12	3-019-224-01	SHEET (EMBLEM)	
* 13	3-020-033-01	CUSHION (VOL)	
* 14	3-020-466-01	SHEET (FP2)	
* 15	3-018-154-01	SHEET (BRACKET)	
* 16	3-019-040-01	SHEET	
LCD1	1-801-725-11	DISPLAY PANEL, LIQUID CRYSTAL	
SP1	1-505-588-11	SPEAKER (3.5X2cm) (L-CH)	
SP2	1-505-588-11	SPEAKER (3.5X2cm) (R-CH)	

5-2. TUNER SECTION
(XT-992V : US Model)
(XT-991V : Hong Kong Model)



Ref. No.	Part No.	Description	Remark
* 51	9-884-241-01	CASE (TOP) (CN)	
* 51	9-884-246-01	CASE (TOP) (US)	
* 52	9-884-239-01	TUNER MAIN BOARD, COMPLETE (CN)	
* 52	9-884-245-01	TUNER MAIN BOARD, COMPLETE (US)	
* 53	9-882-921-01	PLATE, SHIELD (PIF)	
* 54	9-882-922-01	HEAT SINK	
* 55	9-936-532-01	PLATE, REINFORCEMENT	
* 56	9-884-240-01	CASE (BOTTOM)	
* 57	7-621-770-67	SCREW +B 2.6X6	

Ref. No.	Part No.	Description	Remark
* 58	7-621-773-95	SCREW +B 2.6X7	
59	1-777-901-11	CORD (WITH CONNEVTOR) (POWER) (2m) (INCLUDING F1)	
F1	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) 3A	
JP1	9-939-916-01	CORD (WITH PHONO PLUG)	
TU1	9-884-238-01	TUNER UNIT (CN)	
TU1	9-884-244-01	TUNER UNIT (US)	

SECTION 6
ELECTRICAL PARTS LIST

MONITOR MAIN

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

- Abbreviation
  CN : Hong Kong model

Ref. No.	Part No.	Description			Remark
*	A-3317-721-A	MONITOR MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C104	1-117-720-11	CERAMIC CHIP	4.7uF		10V
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C203	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C204	1-126-157-11	ELECT	10uF	20%	16V
C205	1-164-346-11	CERAMIC CHIP	1uF		16V
C206	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C215	1-164-346-11	CERAMIC CHIP	1uF		16V
C216	1-164-346-11	CERAMIC CHIP	1uF		16V
C217	1-124-589-11	ELECT	47uF	20%	16V
C218	1-164-346-11	CERAMIC CHIP	1uF		16V
C219	1-164-346-11	CERAMIC CHIP	1uF		16V
C220	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C221	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C222	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C223	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C225	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C226	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C227	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C228	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C231	1-126-320-11	ELECT(NONPOLAR)	10uF	20%	16V
C232	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-126-320-11	ELECT(NONPOLAR)	10uF	20%	16V
C234	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
C235	1-124-589-11	ELECT	47uF	20%	16V
C236	1-126-155-11	ELECT	100uF	20%	6.3V
C301	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C302	1-216-105-00	RES,CHIP	220K	5%	1/10W
C303	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C304	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C305	1-164-346-11	CERAMIC CHIP	1uF		16V
C306	1-164-346-11	CERAMIC CHIP	1uF		16V
C307	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C308	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C309	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C310	1-164-346-11	CERAMIC CHIP	1uF		16V
C311	1-126-968-11	ELECT	100uF	20%	16V
C312	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C313	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C315	1-104-652-11	ELECT	470uF	20%	10V
C316	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C317	1-216-833-11	RES,CHIP	10K	5%	1/16W
C318	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C319	1-164-346-11	CERAMIC CHIP	1uF		16V
C401	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C402	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C403	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C405	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C406	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C407	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C408	1-216-295-00	SHORT	0		
C410	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C501	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C502	1-124-943-11	ELECT	39uF	20%	25V
C503	1-117-154-11	ELECT	33uF	20%	16V
C504	1-109-894-11	ELECT	33uF	20%	10V
C505	1-109-894-11	ELECT	33uF	20%	10V
C506	1-124-943-11	ELECT	39uF	20%	25V
C507	1-124-569-11	ELECT	56uF	20%	16V
C508	1-124-577-11	ELECT	82uF	20%	10V
C509	1-124-577-11	ELECT	82uF	20%	10V
C510	1-126-968-11	ELECT	100uF	20%	16V
C511	1-124-943-11	ELECT	39uF	20%	25V
C512	1-126-177-11	ELECT	100uF	20%	10V
C513	1-128-078-11	ELECT	33uF	20%	25V
C514	1-128-078-11	ELECT	33uF	20%	25V
C515	1-124-943-11	ELECT	39uF	20%	25V
C601	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C602	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C603	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C604	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C605	1-126-157-11	ELECT	10uF	20%	16V
C606	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C607	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C609	1-164-346-11	CERAMIC CHIP	1uF		16V
C610	1-128-528-11	ELECT	470uF	20%	16V
C611	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C612	1-117-930-11	FILM CHIP	0.22uF	10%	100V
C613	1-107-526-11	CERAMIC CHIP	22PF	10%	3KV
C614	1-128-528-11	ELECT	470uF	20%	16V
C615	1-107-526-11	CERAMIC CHIP	22PF	10%	3KV
C701	1-165-112-11	CERAMIC CHIP	0.33uF		16V

MONITOR MAIN

Ref. No.	Part No.	Description			Remark
C702	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C703	1-164-346-11	CERAMIC CHIP	1uF		16V
C801	1-128-078-11	ELECT	33uF	20%	16V
C901	1-128-528-11	ELECT	470uF	20%	16V
C902	1-164-506-11	CERAMIC CHIP	4.7uF		16V
		< CONNECTOR >			
CN1	1-695-022-21	PLUG, CONNECTOR 16P			
CN8	1-569-629-11	HOUSING, CONNECTOR 24P			
* CN101	1-580-057-11	PIN, CONNECTOR (SMD) 4P			
* CN301	1-580-055-21	PIN, CONNECTOR (SMD) 2P			
* CN302	1-580-055-21	PIN, CONNECTOR (SMD) 2P			
* CN601	1-766-311-21	PIN, CONNECTOR (PC BOARD) 2P			
* CN602	1-766-311-21	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D1	8-719-422-64	DIODE	MA8062-M		
D2	8-719-404-50	DIODE	MA111-TX		
D101	8-719-422-64	DIODE	MA8062-M		
D104	8-719-941-86	DIODE	DAN202U		
D105	8-719-941-86	DIODE	DAN202U		
D106	8-719-422-64	DIODE	MA8062-M		
D107	8-719-422-64	DIODE	MA8062-M		
D108	8-719-422-64	DIODE	MA8062-M		
D109	8-719-422-64	DIODE	MA8062-M		
D110	8-719-941-23	DIODE	DA204U		
D111	8-719-422-64	DIODE	MA8062-M		
D112	8-719-422-64	DIODE	MA8062-M		
D113	8-719-422-64	DIODE	MA8062-M		
D201	8-719-422-64	DIODE	MA8062-M		
D202	8-719-422-64	DIODE	MA8062-M		
D203	8-719-422-64	DIODE	MA8062-M		
D204	8-719-422-64	DIODE	MA8062-M		
D301	8-719-422-64	DIODE	MA8062-M		
D302	8-719-422-64	DIODE	MA8062-M		
D502	8-719-941-09	DIODE	DAP202U		
D503	8-719-941-09	DIODE	DAP202U		
D504	8-719-938-75	DIODE	SB05-05CP		
D505	8-719-941-09	DIODE	DAP202U		
D506	8-719-941-09	DIODE	DAP202U		
D601	8-719-941-09	DIODE	DAP202U		
D602	8-719-422-64	DIODE	MA8062-M		
D603	8-719-422-76	DIODE	MA8075-M		
D604	8-719-048-98	DIODE	RB160L-40TE25		
D605	8-719-048-98	DIODE	RB160L-40TE25		
D702	8-719-422-64	DIODE	MA8062-M		
D801	8-719-404-50	DIODE	MA111-TX		
D802	8-719-404-50	DIODE	MA111-TX		
		< SOLAR BATTERY >			
D701	1-528-925-21	BATTERY, SOLAR (PS-0708)			

Ref. No.	Part No.	Description		Remark
		< FUSE >		
F501	1-576-318-21	FUSE, CHIP (800mA)		
F601	1-533-922-21	FUSE, CHIP (1A)		
F901	1-533-950-11	FUSE, CHIP (2A)		
		< IC >		
IC102	8-759-462-41	IC	BU2486-46-E2	
IC103	8-759-293-00	IC	TC74HC107AF(TP1)	
IC201	8-759-450-52	IC	IR3Y29B4	
IC203	8-759-100-96	IC	uPC4558G2	
IC204	8-759-031-84	IC	SC7S04F	
IC301	8-759-701-02	IC	NJM2073M	
IC302	8-759-170-92	IC	PQ09SZ1T	
IC303	8-759-701-02	IC	NJM2073M	
IC401	8-759-937-36	IC	TL1451ACNS	
IC601	8-759-337-40	IC	NJM2904V(TE2)	
IC701	8-759-337-40	IC	NJM2904V(TE2)	
		< COIL >		
L501	1-412-032-11	INDUCTOR CHIP	100uH	
L502	1-412-032-11	INDUCTOR CHIP	100uH	
L503	1-414-862-11	INDUCTOR	82uH	
L504	1-412-032-11	INDUCTOR CHIP	100uH	
L505	1-411-294-21	INDUCTOR	150uH	
L506	1-412-031-11	INDUCTOR CHIP	47uH	
L507	1-412-031-11	INDUCTOR CHIP	47uH	
L508	1-412-031-11	INDUCTOR CHIP	47uH	
L509	1-412-031-11	INDUCTOR CHIP	47uH	
L510	1-412-031-11	INDUCTOR CHIP	47uH	
L511	1-412-031-11	INDUCTOR CHIP	47uH	
L512	1-412-031-11	INDUCTOR CHIP	47uH	
L513	1-412-032-11	INDUCTOR CHIP	100uH	
L601	1-415-929-21	INDUCTOR	100uH	
L602	1-415-929-21	INDUCTOR	100uH	
L603	1-415-929-21	INDUCTOR	100uH	
		< TRANSISTOR >		
Q101	8-729-028-97	TRANSISTOR	DTC114TUA-T106	
Q102	8-729-028-83	TRANSISTOR	DTA124EUA-T106	
Q103	8-729-907-00	TRANSISTOR	DTC114EU	
Q104	8-729-907-00	TRANSISTOR	DTC114EU	
Q105	8-729-904-07	TRANSISTOR	FMG2	
Q207	8-729-026-51	TRANSISTOR	2SA1576A-T106-Q	
Q208	8-729-140-75	TRANSISTOR	2SD999-CLCK	
Q209	8-729-101-07	TRANSISTOR	2SB798-DL	
Q210	8-729-905-34	TRANSISTOR	2SC4081-Q	
Q502	8-729-026-51	TRANSISTOR	2SA1576A-T106-Q	
Q503	8-729-905-34	TRANSISTOR	2SC4081-Q	
Q504	8-729-018-95	TRANSISTOR	2SD1803FAT-TL	
Q601	8-729-015-87	TRANSISTOR	UMC3TR	
Q602	8-729-015-87	TRANSISTOR	UMC3TR	
Q603	8-729-907-00	TRANSISTOR	DTC114EU	

Ref. No.	Part No.	Description			Remark
Q604	8-729-905-34	TRANSISTOR	2SC4081-Q		
Q605	8-729-907-00	TRANSISTOR	DTC114EU		
Q606	8-729-026-51	TRANSISTOR	2SA1576A-T106-Q		
Q607	8-729-905-34	TRANSISTOR	2SC4081-Q		
Q608	8-729-821-62	TRANSISTOR	2SB1203FAS		
Q609	8-729-018-95	TRANSISTOR	2SD1803FAT-TL		
Q610	8-729-018-95	TRANSISTOR	2SD1803FAT-TL		
Q611	8-729-018-95	TRANSISTOR	2SD1803FAT-TL		
Q801	8-729-026-51	TRANSISTOR	2SA1576A-T106-Q		
Q802	8-729-905-34	TRANSISTOR	2SC4081-Q		
		< RESISTOR >			
R103	1-216-821-11	METAL CHIP	1K	5%	1/16W
R104	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R105	1-216-817-11	METAL CHIP	470	5%	1/16W
R106	1-216-813-11	METAL CHIP	220	5%	1/16W
R107	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R108	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
R109	1-216-817-11	METAL CHIP	470	5%	1/16W
R110	1-216-817-11	METAL CHIP	470	5%	1/16W
R111	1-216-817-11	METAL CHIP	470	5%	1/16W
R112	1-216-817-11	METAL CHIP	470	5%	1/16W
R114	1-216-817-11	METAL CHIP	470	5%	1/16W
R115	1-216-817-11	METAL CHIP	470	5%	1/16W
R118	1-216-833-11	RES,CHIP	10K	5%	1/16W
R119	1-216-833-11	RES,CHIP	10K	5%	1/16W
R120	1-216-864-11	METAL CHIP	0	5%	1/16W
R122	1-216-841-11	METAL CHIP	47K	5%	1/16W
R125	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R126	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R127	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R201	1-216-864-11	METAL CHIP	0	5%	1/16W
R202	1-216-814-11	METAL CHIP	270	5%	1/16W
R203	1-216-864-11	METAL CHIP	0	5%	1/16W
R204	1-216-814-11	METAL CHIP	270	5%	1/16W
R205	1-216-864-11	METAL CHIP	0	5%	1/16W
R206	1-216-814-11	METAL CHIP	270	5%	1/16W
R207	1-216-864-11	METAL CHIP	0	5%	1/16W
R208	1-218-285-11	RES,CHIP	75	5%	1/16W
R210	1-216-864-11	METAL CHIP	0	5%	1/16W
R211	1-216-818-11	METAL CHIP	560	5%	1/16W
R222	1-216-809-11	METAL CHIP	100	5%	1/16W
R223	1-216-809-11	METAL CHIP	100	5%	1/16W
R224	1-216-809-11	METAL CHIP	100	5%	1/16W
R225	1-218-292-11	RES,CHIP	20K	5%	1/16W
R226	1-216-833-11	RES,CHIP	10K	5%	1/16W
R227	1-218-292-11	RES,CHIP	20K	5%	1/16W
R228	1-216-833-11	RES,CHIP	10K	5%	1/16W
R229	1-216-840-11	METAL CHIP	39K	5%	1/16W
R230	1-216-833-11	RES,CHIP	10K	5%	1/16W
R231	1-218-290-11	RES,CHIP	6.2K	5%	1/16W
R232	1-220-158-11	RES,CHIP	3.6K	5%	1/16W
R233	1-216-840-11	METAL CHIP	39K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R234	1-216-833-11	RES,CHIP	10K	5%	1/16W
R235	1-216-840-11	METAL CHIP	39K	5%	1/16W
R236	1-216-833-11	RES,CHIP	10K	5%	1/16W
R237	1-216-821-11	METAL CHIP	1K	5%	1/16W
R238	1-218-292-11	RES,CHIP	20K	5%	1/16W
R239	1-216-833-11	RES,CHIP	10K	5%	1/16W
R240	1-216-836-11	METAL CHIP	18K	5%	1/16W
R242	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R249	1-216-833-11	RES,CHIP	10K	5%	1/16W
R250	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R251	1-216-833-11	RES,CHIP	10K	5%	1/16W
R252	1-218-292-11	RES,CHIP	20K	5%	1/16W
R253	1-216-833-11	RES,CHIP	10K	5%	1/16W
R254	1-216-835-11	METAL CHIP	15K	5%	1/16W
R255	1-216-835-11	METAL CHIP	15K	5%	1/16W
R256	1-216-797-11	METAL CHIP	10	5%	1/16W
R257	1-216-797-11	METAL CHIP	10	5%	1/16W
R258	1-216-836-11	METAL CHIP	18K	5%	1/16W
R259	1-218-293-11	RES,CHIP	24K	5%	1/16W
R301	1-216-833-11	RES,CHIP	10K	5%	1/16W
R302	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
R303	1-218-269-11	RES,CHIP	360	5%	1/16W
R304	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R305	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R306	1-216-799-11	METAL CHIP	15	5%	1/16W
R307	1-218-269-11	RES,CHIP	360	5%	1/16W
R308	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R309	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R310	1-216-799-11	METAL CHIP	15	5%	1/16W
R311	1-216-807-11	METAL CHIP	68	5%	1/16W
R312	1-216-807-11	METAL CHIP	68	5%	1/16W
R315	1-216-833-11	RES,CHIP	10K	5%	1/16W
R316	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
R320	1-216-864-11	METAL CHIP	0	5%	1/16W
R401	1-218-717-11	RES,CHIP	11K	5%	1/16W
R402	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R403	1-216-837-11	METAL CHIP	22K	5%	1/16W
R404	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R405	1-216-837-11	METAL CHIP	22K	5%	1/16W
R406	1-216-837-11	METAL CHIP	22K	5%	1/16W
R407	1-216-837-11	METAL CHIP	22K	5%	1/16W
R408	1-216-840-11	METAL CHIP	39K	5%	1/16W
R409	1-216-837-11	METAL CHIP	22K	5%	1/16W
R410	1-216-837-11	METAL CHIP	22K	5%	1/16W
R411	1-218-344-11	RES,CHIP	7.5K	5%	1/16W
R412	1-216-838-11	METAL CHIP	27K	5%	1/16W
R501	1-216-817-11	METAL CHIP	470	5%	1/16W
R502	1-216-839-11	METAL CHIP	33K	5%	1/16W
R503	1-216-839-11	METAL CHIP	33K	5%	1/16W
R504	1-216-037-00	METAL CHIP	330	5%	1/10W
R520	1-216-037-00	METAL CHIP	330	5%	1/10W
R601	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R602	1-216-833-11	RES,CHIP	10K	5%	1/16W

MONITOR MAIN | MONITOR SUB | TUNER MAIN

Ref. No.	Part No.	Description			Remark
R603	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R604	1-216-853-11	METAL CHIP	470K	5%	1/16W
R605	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R606	1-216-797-11	METAL CHIP	10	5%	1/16W
R609	1-216-833-11	RES,CHIP	10K	5%	1/16W
R610	1-216-817-11	METAL CHIP	470	5%	1/16W
R612	1-216-817-11	METAL CHIP	470	5%	1/16W
R613	1-216-817-11	METAL CHIP	470	5%	1/16W
R614	1-216-813-11	METAL CHIP	220	5%	1/16W
R615	1-216-200-11	RES,CHIP	1.2K	5%	1/8W
R616	1-216-200-11	RES,CHIP	1.2K	5%	1/8W
R617	1-216-837-11	METAL CHIP	22K	5%	1/16W
R618	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R619	1-216-818-11	METAL CHIP	560	5%	1/16W
R620	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R701	1-216-860-11	RES,CHIP	1.8M	5%	1/16W
R702	1-216-809-11	METAL CHIP	100	5%	1/16W
R703	1-216-841-11	METAL CHIP	47K	5%	1/16W
R704	1-216-821-11	METAL CHIP	1K	5%	1/16W
R801	1-216-839-11	METAL CHIP	33K	5%	1/16W
R802	1-216-839-11	METAL CHIP	33K	5%	1/16W
R803	1-216-833-11	RES,CHIP	10K	5%	1/16W
R804	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R805	1-216-821-11	METAL CHIP	1K	5%	1/16W
		< VARIABLE RESISTOR >			
RV201	1-238-088-11	RES, ADJ, CERMET	2.2K		
RV207	1-238-092-11	RES, ADJ, CERMET	47K		
RV208	1-238-092-11	RES, ADJ, CERMET	47K		
RV209	1-238-092-11	RES, ADJ, CERMET	47K		
RV210	1-238-092-11	RES, ADJ, CERMET	47K		
RV211	1-238-090-11	RES, ADJ, CERMET	10K		
RV212	1-238-092-11	RES, ADJ, CERMET	47K		
RV213	1-238-092-11	RES, ADJ, CERMET	47K		
RV214	1-216-296-00	SHORT	0		
RV401	1-238-088-11	RES, ADJ, CERMET	2.2K		
RV601	1-238-087-11	RES, ADJ, CERMET	1K		
		< SWITCH >			
S1	1-692-088-51	SWITCH, TACTILE (POWER)			
S101	1-692-088-51	SWITCH, TACTILE (NAVI)			
S102	1-692-088-51	SWITCH, TACTILE (TV/VIDEO)			
S103	1-692-088-51	SWITCH, TACTILE (SEARCH +)			
S104	1-692-088-51	SWITCH, TACTILE (SEARCH –)			
S105	1-692-088-51	SWITCH, TACTILE (SELECT)			
S107	1-572-499-11	SWITCH, TACTILE (VOL +)			
S108	1-572-499-11	SWITCH, TACTILE (VOL –)			
S701	1-572-834-21	SWITCH, SLIDE (DIMMER)			
		< TRANSFORMER >			
T501	1-431-250-11	TRANSFORMER, DC-DC CONVERTER			
T601	1-431-306-11	TRANSFORMER, INVERTER			
T602	1-431-306-11	TRANSFORMER, INVERTER			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X101	1-767-037-21	OSCILLATOR, CERAMIC (480kHz)			
**********					
*	1-666-548-11	MONITOR SUB BOARD			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< DIODE >			
D102	8-719-987-02	LED CL-140PG-CD (POWER)			
		< IC >			
IC101	8-749-925-07	IC RS-30E-T			
		< RESISTOR >			
R102	1-216-818-11	METAL CHIP	560	5%	1/16W
**********					
*	9-884-239-01	TUNER MAIN BOARD, COMPLETE (CN)			
*	9-884-245-01	TUNER MAIN BOARD, COMPLETE (US)			
		**********			
		< DELAY LINE >			
1HDL	1-415-313-00	DELAY LINE (1H) (CH)			
		< CAPACITOR >			
C1	1-128-268-11	ELECT	3300uF	20%	16V
C2	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C3	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C4	1-164-346-11	CERAMIC CHIP	1uF		16V
C5	1-124-589-11	ELECT	47uF	20%	16V
C6	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C8	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C9	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C10	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C11	1-126-925-11	ELECT	470uF	20%	10V
C12	1-124-589-11	ELECT	47uF	20%	16V
C13	1-126-163-11	ELECT	4.7uF	20%	50V
C14	1-126-163-11	ELECT	4.7uF	20%	50V
C15	1-104-942-11	ELECT	1uF	20%	50V
C16	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (CN)
C16	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (US)
C20	1-126-157-11	ELECT	10uF	20%	16V (CN)
C20	1-126-933-11	ELECT	100uF	20%	16V (US)
C21	1-124-589-11	ELECT	47uF	20%	16V (CN)
C22	1-124-247-11	ELECT	10uF	20%	35V

Ref. No.	Part No.	Description			Remark
C23	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C24	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (US)
C25	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V (US)
C26	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (US)
C30	1-163-222-11	CERAMIC CHIP	5PF	0.5PF	50V (CN)
C30	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V (US)
C31	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (US)
C31	1-163-222-11	CERAMIC CHIP	5PF	0.5PF	50V (CN)
C32	1-163-104-00	CERAMIC CHIP	30PF	5%	50V (CN)
C33	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (US)
C33	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V (CN)
C34	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (US)
C34	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V (CN)
C35	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (US)
C35	1-163-245-11	CERAMIC CHIP	56PF	5%	50V (CN)
C36	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C38	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C40	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (US)
C41	1-104-942-11	ELECT	1uF	20%	50V
C42	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C43	1-126-933-11	ELECT	100uF	20%	16V
C45	1-163-107-00	CERAMIC CHIP	39PF	5%	50V (CN)
C45	1-163-109-00	CERAMIC CHIP	47PF	5%	50V (US)
C46	1-124-465-00	ELECT	0.47uF	20%	50V
C47	1-163-104-00	CERAMIC CHIP	30PF	5%	50V (CN)
C47	1-163-235-11	CERAMIC CHIP	22PF	5%	50V (US)
C48	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C49	1-126-163-11	ELECT	4.7uF	20%	25V
C50	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C51	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C52	1-126-961-11	ELECT	2.2uF	20%	50V
C53	1-163-109-00	CERAMIC CHIP	47PF	5%	50V (CN)
C55	1-126-163-11	ELECT	4.7uF	20%	25V
C69	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C70	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C71	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C72	1-126-163-11	ELECT	4.7uF	20%	25V
C74	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C75	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C76	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C77	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C78	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C89	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C90	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (CN)
C91	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C92	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C93	1-124-234-00	ELECT	22uF	20%	16V
C94	1-164-346-11	CERAMIC CHIP	1uF		16V
C96	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (CN)
C96	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (US)
C98	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V (CN)
C98	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V (US)
C100	1-164-346-11	CERAMIC CHIP	1uF		16V
C101	1-164-346-11	CERAMIC CHIP	1uF		16V
C102	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (US)
C103	1-163-135-00	CERAMIC CHIP	560PF	5%	50V (US)
C104	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-164-346-11	CERAMIC CHIP	1uF		16V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C109	1-124-234-00	ELECT	22uF	20%	16V
C110	1-164-346-11	CERAMIC CHIP	1uF		16V
C111	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C112	1-164-346-11	CERAMIC CHIP	1uF		16V
C113	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C114	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C115	1-164-346-11	CERAMIC CHIP	1uF		16V
C116	1-164-346-11	CERAMIC CHIP	1uF		16V
C117	1-124-234-00	ELECT	22uF	20%	16V
C118	1-164-346-11	CERAMIC CHIP	1uF		16V
C119	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C120	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C121	1-126-157-11	ELECT	10uF	20%	16V
C122	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C130	1-164-346-11	CERAMIC CHIP	1uF		16V
C131	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C132	1-164-346-11	CERAMIC CHIP	1uF		16V
C133	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C134	1-104-942-11	ELECT	1uF	20%	50V
C136	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C137	1-126-157-11	ELECT	10uF	20%	16V

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Ref. No.	Part No.	Description			Remark
C138	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C139	1-126-162-11	ELECT	3.3uF	20%	50V
C140	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C141	1-126-157-11	ELECT	10uF	20%	16V
C157	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C158	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C159	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C160	1-126-157-11	ELECT	10uF	20%	16V
C161	1-126-157-11	ELECT	10uF	20%	16V
C162	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (CN)
C163	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (CN)
C164	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C165	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C166	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C167	1-163-104-00	CERAMIC CHIP	30PF	5%	50V (CN)
C168	1-164-346-11	CERAMIC CHIP	1uF		16V
C169	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C170	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C171	1-124-589-11	ELECT	47uF	20%	16V (US)
C171	1-126-163-11	ELECT	4.7uF	20%	25V (CN)
C172	1-124-234-00	ELECT	22uF	20%	16V
C173	1-104-942-11	ELECT	1uF	20%	50V
C174	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C175	1-126-163-11	ELECT	4.7uF	20%	25V
C176	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C177	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C178	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C179	1-126-925-11	ELECT	470uF	20%	10V
C180	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C181	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C182	1-126-925-11	ELECT	470uF	20%	10V
C183	1-126-925-11	ELECT	470uF	20%	10V
C184	1-126-925-11	ELECT	470uF	20%	10V
C185	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C186	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C188	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C189	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C190	1-126-513-11	ELECT	47uF	20%	6.3V
C191	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C192	1-164-346-11	CERAMIC CHIP	1uF		16V
C193	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C194	1-164-346-11	CERAMIC CHIP	1uF		16V
C195	1-104-942-11	ELECT	1uF	20%	50V (CN)
C195	1-126-961-11	ELECT	2.2uF	20%	50V (US)
C196	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C197	1-126-163-11	ELECT	4.7uF	20%	25V
C198	1-126-157-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C199	1-126-513-11	ELECT	47uF	20%	6.3V
C200	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C201	1-164-346-11	CERAMIC CHIP	1uF		16V
C202	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C203	1-164-346-11	CERAMIC CHIP	1uF		16V
C204	1-104-942-11	ELECT	1uF	20%	50V (CN)
C204	1-126-961-11	ELECT	2.2uF	20%	50V (US)
C205	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C206	1-126-163-11	ELECT	4.7uF	20%	25V
C207	1-126-157-11	ELECT	10uF	20%	16V
C208	1-124-234-00	ELECT	22uF	20%	16V
C213	1-126-157-11	ELECT	10uF	20%	16V
C214	1-126-157-11	ELECT	10uF	20%	16V
C215	1-126-157-11	ELECT	10uF	20%	16V
C220	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C221	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C222	1-126-163-11	ELECT	4.7uF	20%	25V
C223	1-164-346-11	CERAMIC CHIP	1uF		16V
C224	1-164-346-11	CERAMIC CHIP	1uF		16V
C225	1-104-942-11	ELECT	1uF	20%	50V (CN)
C225	1-126-961-11	ELECT	2.2uF	20%	50V (US)
C226	1-126-157-11	ELECT	10uF	20%	16V
C227	1-126-513-11	ELECT	47uF	20%	6.3V
C228	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (CN)
C229	1-126-513-11	ELECT	47uF	20%	6.3V (CN)
C230	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C231	1-126-513-11	ELECT	47uF	20%	6.3V
C232	1-126-513-11	ELECT	47uF	20%	6.3V
C233	1-126-513-11	ELECT	47uF	20%	6.3V
C242	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C243	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C244	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C245	1-126-925-11	ELECT	470uF	20%	10V
C246	1-126-961-11	ELECT	2.2uF	20%	50V (US)
C250	1-164-346-11	CERAMIC CHIP	1uF		16V
C251	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C252	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C253	1-124-234-00	ELECT	22uF	20%	16V
C254	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C255	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C256	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C257	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C258	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C259	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C260	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C261	1-126-934-11	ELECT	220uF	20%	16V
C263	1-126-767-11	ELECT	1000uF	20%	16V

Ref. No.	Part No.	Description			Remark
C282	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V (CN)
C288	1-104-942-11	ELECT	1uF	20%	50V
C294	1-164-346-11	CERAMIC CHIP	1uF		16V
C295	1-164-346-11	CERAMIC CHIP	1uF		16V
C296	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C297	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
		< FILTER >			
CF1	1-409-332-00	TRAP, CERAMIC (4.5MHz) (US)			
CF1	1-760-728-11	TRAP, CERAMIC (CN)			
CF2	1-527-943-00	FILTER, CERAMIC (4.5MHz) (US)			
CF2	1-567-101-11	FILTER, CERAMIC (6.5MHz) (CN)			
CF3	1-567-100-11	FILTER, CERAMIC (6MHz) (CN)			
		< CONNECTOR >			
CN2	1-764-631-11	PLUG, CONNECTOR (NAVI IN SONY NAVI (NVX))			
CN3	1-764-632-21	PLUG, CONNECTOR 16P (MONITOR OUT)			
CN4	1-569-216-11	CONNECTOR 5P (POWER)			
		< DIODE >			
D1	8-719-023-54	DIODE EA60QC06-F			
D2	8-719-988-61	DIODE 1SS355TE-17			
D3	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D4	8-719-158-15	DIODE RD5.6SB			
D5	8-719-978-69	DIODE DTZ-TT11-16B			
D6	8-719-914-44	DIODE DAP202K			
D20	8-719-978-96	DIODE DTZ-TT11-33A			
D30	8-719-971-05	DIODE HSM123			
D31	8-719-056-74	DIODE UDZ-TE-17-3.0B			
D40	8-719-026-18	DIODE MA3091WK			
D41	8-719-026-18	DIODE MA3091WK			
D42	8-719-026-18	DIODE MA3091WK			
D43	8-719-026-18	DIODE MA3091WK			
D50	8-719-026-18	DIODE MA3091WK			
D51	8-719-026-18	DIODE MA3091WK			
D55	8-719-988-61	DIODE 1SS355TE-17 (CN)			
D60	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D60	8-719-066-17	DIODE FTZ6.8E-T148 (US)			
D61	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D62	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D63	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D65	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D66	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D67	8-719-026-18	DIODE MA3091WK (CH)			
D70	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D70	8-719-066-17	DIODE FTZ6.8E-T148 (US)			
D71	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D72	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D73	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			
D74	8-719-056-83	DIODE UDZ-TE-17-6.8B			
D75	8-719-056-94	DIODE UDZ-TE-17-20B			
D78	8-719-056-83	DIODE UDZ-TE-17-6.8B (CN)			

Ref. No.	Part No.	Description	Remark
		< COIL >	
DAT	1-416-650-11	COIL (WITH CORE) (CN)	
		< DELAY LINE >	
DL2	1-416-403-11	DELAY LINE	
		< FERRITE BEAD >	
FB1	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	
		< FUSE >	
FU1	9-939-529-01	FUSE (3.15A)	
		< IC >	
IC1	9-882-911-01	IC PST9145NR	
IC2	9-882-912-01	IC BA17805FP	
IC3	8-759-945-44	IC BA6161F	
IC4	8-759-394-36	IC BA09T (US)	
IC4	8-759-701-59	IC NJM78M09FA (CN)	
IC12	9-884-242-01	IC M37210M3 (CN)	
IC12	9-884-247-01	IC M37210M3 (US)	
IC13	9-882-914-01	IC LA7565EM	
IC14	8-759-089-61	IC TC74HC4052AFS(EL)	
IC15	8-759-100-96	IC uPC4558G2	
IC16	9-882-915-01	IC M5282FP	
IC17	8-759-098-00	IC MM1108XF	
IC18	8-759-300-71	IC HD14053BFP	
IC19	8-759-088-00	IC MM1114XF (CN)	
IC19	8-759-287-89	IC MM1113XFF (US)	
IC20	8-759-433-44	IC MM1031XF (US)	
IC21	8-759-256-59	IC HD74HC00FP	
IC22	8-759-242-68	IC TC7W32F	
IC23	8-759-234-20	IC TC7S08F	
IC24	8-752-058-96	IC CXA1585Q	
IC25	8-759-300-71	IC HD14053BFP	
IC26	8-759-300-71	IC HD14053BFP	
IC27	8-759-048-67	IC BA3121F	
IC28	8-759-048-67	IC BA3121F	
IC29	8-759-048-67	IC BA3121F	
IC30	8-759-358-46	IC MM1114XFBE (CN)	
IC31	8-759-041-30	IC MSM5258M-K-R4	
IC33	8-759-246-44	IC TA2005SN	
IC50	8-759-248-67	IC AT24C01-10SC	
		< JACK >	
J1	1-573-798-21	JACK, MINIATURE (DIA.3.5) (ANT IN)	
J5	1-580-442-11	JACK, PIN 3P (INPUT1 VIDEO/AUDIO)	
J6	1-580-442-11	JACK, PIN 3P (INPUT2 VIDEO/AUDIO)	
J8	1-778-070-11	JACK, PIN 3P (OUTPUT VIDEO/AUDIO)	
J10	9-939-527-01	JACK, PIN 2P (NAVI IN VIDEO/AUDIO)	

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Ref. No.	Part No.	Description		Remark
		< CORD >		
JP1	9-939-916-01	CORD (WITH PHONO PLUG)		
		< COIL >		
L1	1-421-961-41	COIL, CHOKE	450uH	
L2	1-408-989-21	INDUCTOR	470uH	
L3	1-410-771-11	INDUCTOR	4.7mH	
L20	1-408-969-21	INDUCTOR	8.2uH (CN)	
L20	1-408-975-21	INDUCTOR	27uH (US)	
L21	1-408-969-21	INDUCTOR	8.2uH (CN)	
L21	1-410-988-42	INDUCTOR	0.39uH (US)	
L22	1-408-969-21	INDUCTOR	8.2uH (CN)	
L22	1-408-975-21	INDUCTOR	27uH (US)	
L24	1-408-969-21	INDUCTOR	8.2uH (CN)	
L24	1-408-972-21	INDUCTOR	15uH (US)	
L27	1-408-975-21	INDUCTOR	27uH (CN)	
L30	1-414-161-21	INDUCTOR	1mH	
L31	1-414-161-21	INDUCTOR	1mH	
L40	1-408-978-21	INDUCTOR	47uH	
L50	1-408-978-21	INDUCTOR	47uH	
L51	1-408-975-21	INDUCTOR	27uH	
L82	1-408-969-21	INDUCTOR	8.2uH (CN)	
L93	1-408-978-21	INDUCTOR	47uH	
L94	1-408-969-21	INDUCTOR	8.2uH	
		< TRANSISTOR >		
Q1	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q2	8-729-035-48	TRANSISTOR	2SB1482R	
Q3	8-729-900-53	TRANSISTOR	DTC114EK	
Q4	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q10	8-729-027-31	TRANSISTOR	DTA124EKA-T146	
Q20	8-729-016-77	TRANSISTOR	2SC2412KLN-R (CN)	
Q20	8-729-102-06	TRANSISTOR	2SC2223-F12 (US)	
Q21	8-729-900-53	TRANSISTOR	DTC114EK (CN)	
Q22	8-729-016-77	TRANSISTOR	2SC2412KLN-R (CN)	
Q23	8-729-900-53	TRANSISTOR	DTC114EK (CN)	
Q24	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q30	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q31	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q32	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q33	8-729-027-59	TRANSISTOR	DTC144EKA-T146	
Q35	8-729-027-31	TRANSISTOR	DTA124EKA-T146	
Q40	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q41	8-729-027-44	TRANSISTOR	DTC114TKA-T146 (US)	
Q41	8-729-027-59	TRANSISTOR	DTC144EKA-T146 (CN)	
Q42	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q53	8-729-900-53	TRANSISTOR	DTC114EK	
Q60	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q61	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q62	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q63	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q64	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R	
Q72	8-729-027-31	TRANSISTOR	DTA124EKA-T146	
Q73	8-729-027-52	TRANSISTOR	DTC124EKA-T146	
Q77	8-729-901-47	TRANSISTOR	DTA143EK	
Q78	8-729-027-31	TRANSISTOR	DTA124EKA-T146	
Q79	8-729-900-53	TRANSISTOR	DTC114EK	
Q80	8-729-900-53	TRANSISTOR	DTC114EK	
Q81	8-729-900-53	TRANSISTOR	DTC114EK	
Q90	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q91	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R (CN)	
Q92	8-729-016-77	TRANSISTOR	2SC2412KLN-R (CN)	
Q96	8-729-901-00	TRANSISTOR	DTC124EK	
Q97	8-729-901-00	TRANSISTOR	DTC124EK	
Q100	8-729-900-53	TRANSISTOR	DTC114EK (CN)	
Q101	8-729-900-53	TRANSISTOR	DTC114EK (CN)	
Q103	8-729-016-77	TRANSISTOR	2SC2412KLN-R	
Q106	8-729-027-31	TRANSISTOR	DTA124EKA-T146 (CN)	
Q127	8-729-027-59	TRANSISTOR	DTC144EKA-T146 (CN)	
Q128	8-729-016-77	TRANSISTOR	2SC2412KLN-R (CN)	
Q129	8-729-900-53	TRANSISTOR	DTC114EK (CN)	
		< RESISTOR >		
R1	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
R2	1-216-037-00	METAL CHIP	330 5% 1/10W	
R3	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
R4	1-216-090-00	RES,CHIP	51K 5% 1/10W	
R5	1-216-089-00	RES,CHIP	47K 5% 1/10W	
R6	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R7	1-220-271-11	METAL CHIP	560 5% 1/2W	
R8	1-216-041-11	METAL CHIP	470 5% 1/10W	
R9	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	
R10	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R11	1-216-381-11	METAL OXIDE	8.2 5% 2W F	(US)
R11	1-218-050-11	METAL OXIDE	10 5% 2W F	(CN)
R12	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	
R13	1-216-049-11	RES,CHIP	1K 5% 1/10W	(US)
R13	1-216-067-00	METAL CHIP	5.6K 5% 1/10W	(CN)
R23	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R30	1-216-015-00	RES,CHIP	39 5% 1/10W	(CN)
R30	1-216-021-00	METAL CHIP	68 5% 1/10W	(US)
R31	1-216-017-00	RES,CHIP	47 5% 1/10W	(CN)
R31	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	(US)
R32	1-216-035-00	RES,CHIP	270 5% 1/10W	(US)
R32	1-216-081-00	METAL CHIP	22K 5% 1/10W	(CN)
R33	1-216-019-00	RES,CHIP	56 5% 1/10W	(US)

Ref. No.	Part No.	Description			Remark
R33	1-216-049-11	RES,CHIP	1K	5%	1/10W
					(CN)
R34	1-216-035-00	RES,CHIP	270	5%	1/10W
					(US)
R34	1-216-081-00	METAL CHIP	22K	5%	1/10W
					(CN)
R35	1-216-049-11	RES,CHIP	1K	5%	1/10W
R36	1-216-049-11	RES,CHIP	1K	5%	1/10W
					(US)
R40	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R41	1-216-041-11	METAL CHIP	470	5%	1/10W
					(CN)
R41	1-216-043-00	RES,CHIP	560	5%	1/10W
					(US)
R42	1-216-033-00	METAL CHIP	220	5%	1/10W
					(CN)
R42	1-216-037-00	METAL CHIP	330	5%	1/10W
					(US)
R43	1-216-029-00	METAL CHIP	150	5%	1/10W
R44	1-216-095-00	METAL CHIP	82K	5%	1/10W
R45	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R46	1-216-089-00	RES,CHIP	47K	5%	1/10W
R47	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
					(CN)
R47	1-216-081-00	METAL CHIP	22K	5%	1/10W
					(US)
R48	1-216-079-00	METAL CHIP	18K	5%	1/10W
					(US)
R48	1-216-083-00	METAL CHIP	27K	5%	1/10W
					(CN)
R49	1-216-069-11	METAL CHIP	6.8K	5%	1/10W
					(CN)
R49	1-216-081-00	METAL CHIP	22K	5%	1/10W
					(US)
R50	1-216-075-00	METAL CHIP	12K	5%	1/10W
R51	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
					(US)
R51	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
					(CN)
R52	1-216-033-00	METAL CHIP	220	5%	1/10W
R53	1-216-029-00	METAL CHIP	150	5%	1/10W
					(US)
R53	1-216-031-00	METAL CHIP	180	5%	1/10W
					(CN)
R54	1-216-029-00	METAL CHIP	150	5%	1/10W
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R56	1-216-073-00	METAL CHIP	10K	5%	1/10W
R63	1-216-025-00	RES,CHIP	100	5%	1/10W
R70	1-216-041-11	METAL CHIP	470	5%	1/10W
					(CN)
R70	1-216-089-00	RES,CHIP	47K	5%	1/10W
					(US)
R71	1-216-041-11	METAL CHIP	470	5%	1/10W
R72	1-216-041-11	METAL CHIP	470	5%	1/10W
R73	1-216-041-11	METAL CHIP	470	5%	1/10W
R74	1-216-041-11	METAL CHIP	470	5%	1/10W
R75	1-216-041-11	METAL CHIP	470	5%	1/10W
R76	1-216-089-00	RES,CHIP	47K	5%	1/10W
					(US)
R77	1-216-089-00	RES,CHIP	47K	5%	1/10W
					(US)
R78	1-216-041-11	METAL CHIP	470	5%	1/10W
R79	1-216-041-11	METAL CHIP	470	5%	1/10W
R80	1-216-089-00	RES,CHIP	47K	5%	1/10W
R81	1-216-041-11	METAL CHIP	470	5%	1/10W
R82	1-216-089-00	RES,CHIP	47K	5%	1/10W
R83	1-216-025-00	RES,CHIP	100	5%	1/10W
R84	1-216-089-00	RES,CHIP	47K	5%	1/10W
R85	1-216-073-00	METAL CHIP	10K	5%	1/10W
R86	1-216-089-00	RES,CHIP	47K	5%	1/10W
R87	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R88	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R89	1-216-089-00	RES,CHIP	47K	5%	1/10W
					(US)
R90	1-216-089-00	RES,CHIP	47K	5%	1/10W
R91	1-216-089-00	RES,CHIP	47K	5%	1/10W
R92	1-216-089-00	RES,CHIP	47K	5%	1/10W
R93	1-216-089-00	RES,CHIP	47K	5%	1/10W
					(US)
R94	1-216-089-00	RES,CHIP	47K	5%	1/10W
R95	1-216-089-00	RES,CHIP	47K	5%	1/10W
R96	1-216-089-00	RES,CHIP	47K	5%	1/10W
R97	1-216-089-00	RES,CHIP	47K	5%	1/10W
R99	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R100	1-216-105-00	RES,CHIP	220K	5%	1/10W
R102	1-216-021-00	METAL CHIP	68	5%	1/10W
R103	1-216-081-00	METAL CHIP	22K	5%	1/10W
R104	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R105	1-216-049-11	RES,CHIP	1K	5%	1/10W
R107	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
					(US)
R107	1-216-079-00	METAL CHIP	18K	5%	1/10W
					(CN)
R109	1-216-089-00	RES,CHIP	47K	5%	1/10W
					(CN)
R109	1-216-095-00	METAL CHIP	82K	5%	1/10W
					(US)
R110	1-216-089-00	RES,CHIP	47K	5%	1/10W
R111	1-216-089-00	RES,CHIP	47K	5%	1/10W
R112	1-216-089-00	RES,CHIP	47K	5%	1/10W
R113	1-216-089-00	RES,CHIP	47K	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R115	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R116	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R117	1-216-081-00	METAL CHIP	22K	5%	1/10W
R118	1-216-081-00	METAL CHIP	22K	5%	1/10W
R123	1-216-089-00	RES,CHIP	47K	5%	1/10W
R124	1-216-089-00	RES,CHIP	47K	5%	1/10W
R125	1-216-079-00	METAL CHIP	18K	5%	1/10W
R126	1-216-081-00	METAL CHIP	22K	5%	1/10W

TUNER MAIN

Ref. No.	Part No.	Description			Remark
R127	1-216-097-00	RES,CHIP	100K	5%	1/10W
R128	1-216-097-00	RES,CHIP	100K	5%	1/10W
R129	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R130	1-216-081-00	METAL CHIP	22K	5%	1/10W
R131	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R132	1-216-081-00	METAL CHIP	22K	5%	1/10W
R133	1-216-089-00	RES,CHIP	47K	5%	1/10W
R134	1-216-069-11	METAL CHIP	6.8K	5%	1/10W
R135	1-216-089-00	RES,CHIP	47K	5%	1/10W
R136	1-216-045-00	METAL CHIP	680	5%	1/10W
R137	1-216-073-00	METAL CHIP	10K	5%	1/10W
R138	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R140	1-216-049-11	RES,CHIP	1K	5%	1/10W
R141	1-216-089-00	RES,CHIP	47K	5%	1/10W
R142	1-216-115-00	METAL CHIP	560K	5%	1/10W
R143	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CN)
R143	1-216-073-00	METAL CHIP	10K	5%	1/10W (US)
R144	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CN)
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W (US)
R145	1-216-097-00	RES,CHIP	100K	5%	1/10W
R146	1-216-101-00	METAL CHIP	150K	5%	1/10W
R147	1-216-049-11	RES,CHIP	1K	5%	1/10W (CN)
R148	1-216-049-11	RES,CHIP	1K	5%	1/10W
R149	1-216-043-00	RES,CHIP	560	5%	1/10W
R150	1-216-109-00	METAL CHIP	330K	5%	1/10W
R151	1-216-073-00	METAL CHIP	10K	5%	1/10W
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R153	1-216-097-00	RES,CHIP	100K	5%	1/10W
R154	1-216-095-00	METAL CHIP	82K	5%	1/10W
R155	1-216-049-11	RES,CHIP	1K	5%	1/10W
R156	1-216-073-00	METAL CHIP	10K	5%	1/10W
R157	1-216-073-00	METAL CHIP	10K	5%	1/10W
R159	1-216-041-11	METAL CHIP	470	5%	1/10W
R162	1-216-041-11	METAL CHIP	470	5%	1/10W
R163	1-216-041-11	METAL CHIP	470	5%	1/10W
R168	1-216-073-00	METAL CHIP	10K	5%	1/10W
R169	1-216-041-11	METAL CHIP	470	5%	1/10W
R173	1-216-073-00	METAL CHIP	10K	5%	1/10W
R174	1-216-073-00	METAL CHIP	10K	5%	1/10W
R175	1-216-073-00	METAL CHIP	10K	5%	1/10W
R176	1-216-117-00	METAL CHIP	680K	5%	1/10W
R177	1-216-073-00	METAL CHIP	10K	5%	1/10W
R178	1-216-073-00	METAL CHIP	10K	5%	1/10W
R179	1-216-049-11	RES,CHIP	1K	5%	1/10W
R180	1-216-041-11	METAL CHIP	470	5%	1/10W
R190	1-216-073-00	METAL CHIP	10K	5%	1/10W
R191	1-216-073-00	METAL CHIP	10K	5%	1/10W
R192	1-216-085-00	METAL CHIP	33K	5%	1/10W
R193	1-216-077-00	METAL CHIP	15K	5%	1/10W
R194	1-216-099-00	METAL CHIP	120K	5%	1/10W
R195	1-216-081-00	METAL CHIP	22K	5%	1/10W
R196	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CN)
R197	1-216-089-00	RES,CHIP	47K	5%	1/10W
R198	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CN)
R199	1-216-039-00	METAL CHIP	390	5%	1/10W (CN)
R200	1-216-039-00	METAL CHIP	390	5%	1/10W (CN)
R204	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R205	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R206	1-216-063-00	RES,CHIP	3.9K	5%	1/10W
R207	1-216-097-00	RES,CHIP	100K	5%	1/10W
R208	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CN)
R211	1-216-041-11	METAL CHIP	470	5%	1/10W
R212	1-216-103-00	METAL CHIP	180K	5%	1/10W
R213	1-216-041-11	METAL CHIP	470	5%	1/10W
R214	1-216-025-00	RES,CHIP	100	5%	1/10W (CN)
R215	1-216-021-00	METAL CHIP	68	5%	1/10W (CN)
R215	1-216-029-00	METAL CHIP	150	5%	1/10W (US)
R216	1-216-113-00	METAL CHIP	470K	5%	1/10W
R219	1-216-073-00	METAL CHIP	10K	5%	1/10W
R220	1-216-073-00	METAL CHIP	10K	5%	1/10W
R221	1-216-033-00	METAL CHIP	220	5%	1/10W
R222	1-216-022-00	METAL CHIP	75	5%	1/10W
R223	1-216-073-00	METAL CHIP	10K	5%	1/10W
R224	1-216-069-11	METAL CHIP	6.8K	5%	1/10W
R225	1-216-069-11	METAL CHIP	6.8K	5%	1/10W
R226	1-216-073-00	METAL CHIP	10K	5%	1/10W
R227	1-216-033-00	METAL CHIP	220	5%	1/10W
R228	1-216-033-00	METAL CHIP	220	5%	1/10W
R229	1-216-033-00	METAL CHIP	220	5%	1/10W
R230	1-216-033-00	METAL CHIP	220	5%	1/10W
R231	1-216-033-00	METAL CHIP	220	5%	1/10W
R232	1-216-033-00	METAL CHIP	220	5%	1/10W
R233	1-216-022-00	METAL CHIP	75	5%	1/10W
R234	1-216-022-00	METAL CHIP	75	5%	1/10W
R235	1-216-022-00	METAL CHIP	75	5%	1/10W
R236	1-216-085-00	METAL CHIP	33K	5%	1/10W
R237	1-216-079-00	METAL CHIP	18K	5%	1/10W
R238	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R239	1-216-082-00	METAL CHIP	24K	5%	1/10W
R240	1-216-022-00	METAL CHIP	75	5%	1/10W
R241	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R242	1-216-073-00	METAL CHIP	10K	5%	1/10W
R243	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R244	1-216-073-00	METAL CHIP	10K	5%	1/10W
R245	1-216-041-11	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description			Remark
R246	1-216-001-00	METAL CHIP	10	5%	1/10W
R247	1-216-022-00	METAL CHIP	75	5%	1/10W
R248	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R249	1-216-073-00	METAL CHIP	10K	5%	1/10W
R250	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R251	1-216-073-00	METAL CHIP	10K	5%	1/10W
R252	1-216-041-11	METAL CHIP	470	5%	1/10W
R253	1-216-001-00	METAL CHIP	10	5%	1/10W
R254	1-216-049-11	RES,CHIP	1K	5%	1/10W
R255	1-216-081-00	METAL CHIP	22K	5%	1/10W
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W
R257	1-216-049-11	RES,CHIP	1K	5%	1/10W
R258	1-216-073-00	METAL CHIP	10K	5%	1/10W
R259	1-216-041-11	METAL CHIP	470	5%	1/10W
R260	1-216-022-00	METAL CHIP	75	5%	1/10W
R261	1-216-073-00	METAL CHIP	10K	5%	1/10W (CN)
R262	1-216-001-00	METAL CHIP	10	5%	1/10W
R263	1-216-075-00	METAL CHIP	12K	5%	1/10W
R264	1-216-073-00	METAL CHIP	10K	5%	1/10W
R265	1-216-041-11	METAL CHIP	470	5%	1/10W
R266	1-216-089-00	RES,CHIP	47K	5%	1/10W (US)
R267	1-216-089-00	RES,CHIP	47K	5%	1/10W (US)
R270	1-216-022-00	METAL CHIP	75	5%	1/10W (CN)
R271	1-216-033-00	METAL CHIP	220	5%	1/10W
R272	1-216-033-00	METAL CHIP	220	5%	1/10W
R273	1-216-033-00	METAL CHIP	220	5%	1/10W
R274	1-216-089-00	RES,CHIP	47K	5%	1/10W
R275	1-216-085-00	METAL CHIP	33K	5%	1/10W
R276	1-216-089-00	RES,CHIP	47K	5%	1/10W
R277	1-216-085-00	METAL CHIP	33K	5%	1/10W
R278	1-216-089-00	RES,CHIP	47K	5%	1/10W
R279	1-216-085-00	METAL CHIP	33K	5%	1/10W
R280	1-216-089-00	RES,CHIP	47K	5%	1/10W
R281	1-216-089-00	RES,CHIP	47K	5%	1/10W
R282	1-216-073-00	METAL CHIP	10K	5%	1/10W
R283	1-216-073-00	METAL CHIP	10K	5%	1/10W
R284	1-216-049-11	RES,CHIP	1K	5%	1/10W
R285	1-216-073-00	METAL CHIP	10K	5%	1/10W
R286	1-216-049-11	RES,CHIP	1K	5%	1/10W
R287	1-216-097-00	RES,CHIP	100K	5%	1/10W
R288	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R289	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R290	1-216-097-00	RES,CHIP	100K	5%	1/10W
R291	1-216-097-00	RES,CHIP	100K	5%	1/10W
R292	1-216-073-00	METAL CHIP	10K	5%	1/10W (CN)
R293	1-216-073-00	METAL CHIP	10K	5%	1/10W
R300	1-216-095-00	METAL CHIP	82K	5%	1/10W
R301	1-216-077-00	METAL CHIP	15K	5%	1/10W
R304	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R305	1-216-049-11	RES,CHIP	1K	5%	1/10W
R306	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R307	1-216-065-00	RES,CHIP	4.7K	5%	1/10W (CN)
R307	1-216-073-00	METAL CHIP	10K	5%	1/10W (US)
R308	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R309	1-216-049-11	RES,CHIP	1K	5%	1/10W (CN)
R310	1-216-029-00	METAL CHIP	150	5%	1/10W (CN)
R313	1-216-049-11	RES,CHIP	1K	5%	1/10W (CN)
R314	1-216-049-11	RES,CHIP	1K	5%	1/10W (CN)
R320	1-216-077-00	METAL CHIP	15K	5%	1/10W
R321	1-216-075-00	METAL CHIP	12K	5%	1/10W
R322	1-216-077-00	METAL CHIP	15K	5%	1/10W
R323	1-216-073-00	METAL CHIP	10K	5%	1/10W
R347	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CN)
R348	1-216-073-00	METAL CHIP	10K	5%	1/10W (CN)
R349	1-216-073-00	METAL CHIP	10K	5%	1/10W (CN)
R351	1-216-025-00	RES,CHIP	100	5%	1/10W
R352	1-216-025-00	RES,CHIP	100	5%	1/10W
R353	1-216-025-00	RES,CHIP	100	5%	1/10W
R376	1-216-021-00	METAL CHIP	68	5%	1/10W
R377	1-216-095-00	METAL CHIP	82K	5%	1/10W
R378	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (CN)
R379	1-216-049-11	RES,CHIP	1K	5%	1/10W (CN)
R381	1-216-043-00	RES,CHIP	560	5%	1/10W

< RELAY >

RY1	9-939-919-01	RELAY (CH)

< FILTER >

SF1	1-760-595-11	FILTER, SURFACE WAVE (US)
SF1	9-884-237-01	FILTER, SAW (CN)
SF2	1-404-351-13	FILTER, SAW (US)

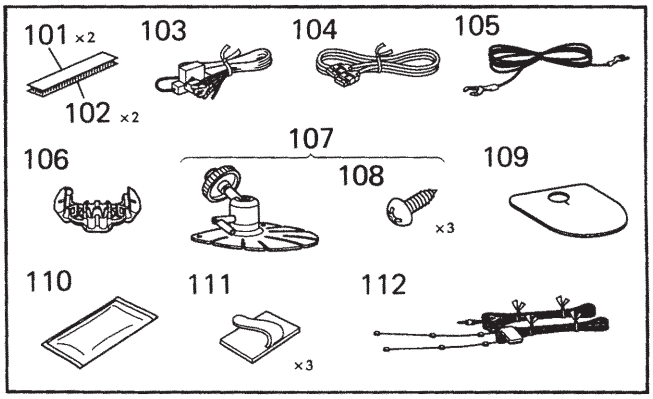
< SWITCH >

SW1	9-939-918-01	SWITCH (TV SYSTEM) (CN)

< COIL >

T1	1-404-999-11	COIL (CN)
T2	1-404-999-11	COIL (CN)
T3	1-416-000-11	COIL (CH)
T3	9-884-243-01	COIL (CN)

TUNER MAIN

Ref. No.	Part No.	Description	Remark
		< TUNER >	
TU1	9-884-238-01	TUNER UNIT (CN)	
TU1	9-884-244-01	TUNER UNIT (US)	
		< VARIABLE RESISTOR >	
VR1	1-238-601-11	RES, ADJ, CARBON 22K	
VR4	1-238-595-11	RES, ADJ, CARBON 220	
VR5	1-238-600-11	RES, ADJ, CARBON 10K (CN)	
VR6	1-241-760-11	RES, ADJ, CERMET 470	
		< VIBRATOR >	
X2	9-939-921-01	VIBRATOR, CRYSTAL (8MHz)	
X3	1-567-859-11	VIBRATOR, CRYSTAL (3.58MHz)	
X4	1-567-859-11	VIBRATOR, CRYSTAL (3.58MHz)	
X5	1-567-860-11	VIBRATOR, CRYSTAL (4.43MHz) (CN)	
**********			
		MISCELLANEOUS	
		**********	
7	1-782-596-11	CABLE, FLAT 24P	
59	1-777-901-11	CORD (WITH CONNEVTOR) (POWER) (2m) (INCLUDING F1)	
F1	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) 3A	
LCD1	1-801-725-11	DISPLAY PANEL, LIQUID CRYSTAL	
SP1	1-505-588-11	SPEAKER (3.5X2cm) (L-CH)	
SP2	1-505-588-11	SPEAKER (3.5X2cm) (R-CH)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-473-715-21	REMOTE COMMANDER (RM-X63E) (CN)	
	1-473-715-31	REMOTE COMMANDER (RM-X63N) (US)	
	3-866-745-11	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE)	
	3-866-746-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, TRADITIONAL CHINESE)	
	9-939-691-01	LID, BATTERY CASE (for RM-X63E/X63N)	
**********			

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
101	3-310-656-01	TAPE, MAGIC	
102	3-310-658-01	TAPE (B), MAGIC	
103	1-777-901-11	CORD (WITH CONNECTOR) (POWER) (2m) (including ▲A)	
104	1-777-317-21	CORD, CONNECTION (16P-16P) (3m) (MONITOR EXTENSION)	
105	1-690-814-11	CORD (WITH TERMINAL) (EARTH)	
106	1-695-529-11	CONNECTOR (RELAY)	
107	X-3374-113-1	STAND ASSY	
108	7-685-661-79	SCREW +P 4X12 TYPE4	
109	3-938-291-01	COVER (STAND)	
110	NOT SUPPLIED		
111	3-389-594-01	CLAMP, CORD (for MONITOR)	
112	1-754-015-11	ANTENNA, TV (VCA-114) (5m) (including ▲B)	
▲A	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUSE) 3A	
▲B	1-532-414-11	FUSE (1A/125V)